

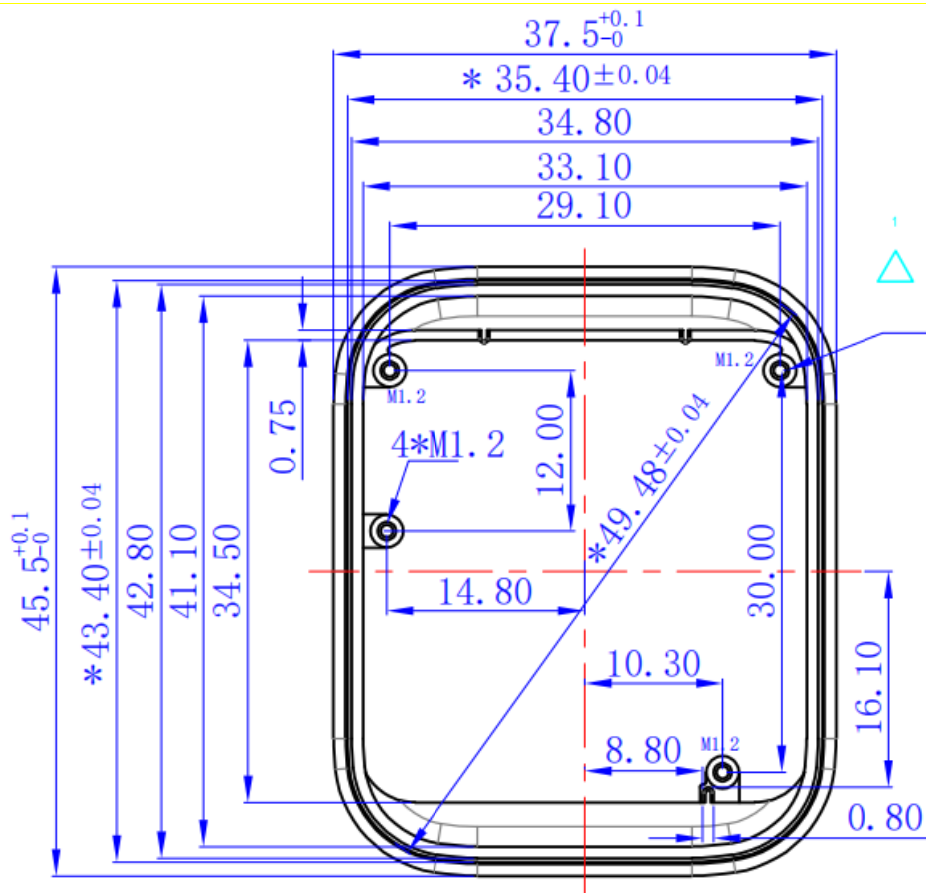


Chongqing Zhouhai Intelligent Technology Co., LTD

Sample acknowledgement

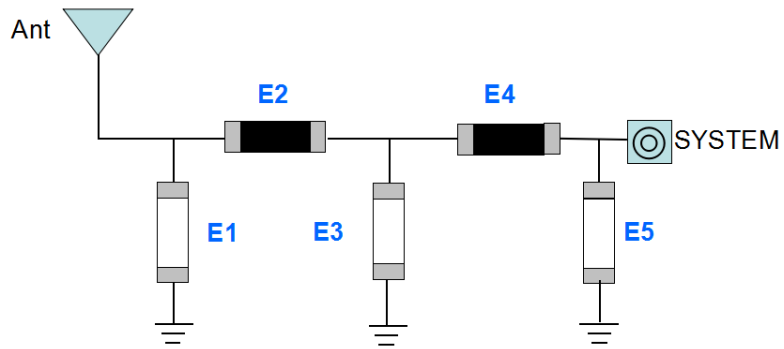
| | | | | | |
|---------------------------------------|--|---------------------------|--|--|-------------|
| The Zhou Haisu | | Supplier name | Welletronics Communication Technology Co., LTD. | | |
| Material name | T008 | edition | V1.0 | Sample delivery date: 2023.02.22 | |
| Model and specification | Metal frame antenna (BT+GPS) | Identify the cause | <input checked="" type="checkbox"/> First sample seal <input type="checkbox"/> Upgrade and improve | | |
| Present a confession material | <input checked="" type="checkbox"/> 1. Standard sample | | | | |
| | <input checked="" type="checkbox"/> 2. Product drawings and specifications | | | | |
| | <input checked="" type="checkbox"/> 3. Full size measurement results report (full size report, FAI report, key size CPK (measured by different die numbers and hole numbers)) | | | | |
| | <input checked="" type="checkbox"/> 4. QC engineering drawing, inspection SIP | | | | |
| | <input checked="" type="checkbox"/> 5. RoHS compliance guarantee and third party test report | | | | |
| | <input checked="" type="checkbox"/> 6. Material certificate, material composition list | | | | |
| | <input checked="" type="checkbox"/> 7. Product or material reliability, electrical performance test report | | | | |
| | <input checked="" type="checkbox"/> 8. Product or material shipment packing specification | | | | |
| Supplier countersign | | | | | |
| formulate | quality | structure | hardware | project | seal |
| | | | | | |
| Customer countersign | | | | | |
| Identification item | Inspection results and comments | | | | |
| Opinion of approval | Temporary sample: <input type="checkbox"/> Limited use (quantity) _____ <input type="checkbox"/> disadopt | | | | |
| | Formal sample: <input type="checkbox"/> Batch use <input type="checkbox"/> Limited use (quantity) _____ <input type="checkbox"/> disadopt | | | | |
| | Reasons for limiting or not using: | | | | |
| Customer countersign | hardware | structure | ID design | quality | project |
| | | | | | |
| Sample distribution department | In quadruplicate: <input checked="" type="checkbox"/> Research and development archive <input checked="" type="checkbox"/> supplier <input type="checkbox"/> IQC/Quality department <input checked="" type="checkbox"/> Customer retention file | | | | |
| remarks | | | | | |

Product pictures and antenna pictures



Electrical characteristics

Antenna-match

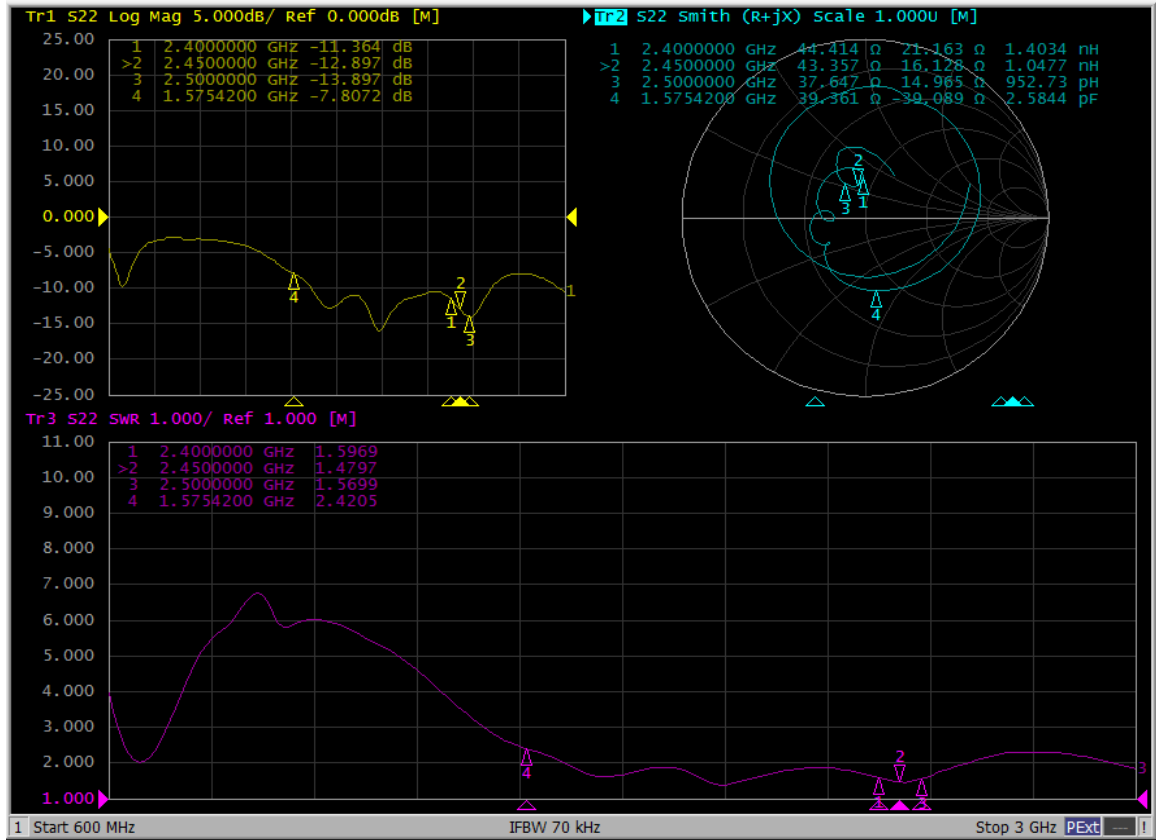


| BT/GPS-match | |
|--------------|------------|
| Element | Value |
| E1 (0201) | N/A |
| E2 (0201) | 0 Ω |
| E3 (0201) | N/A |
| E4 (0201) | 0 Ω |
| E5 (0201) | N/A |

S11

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

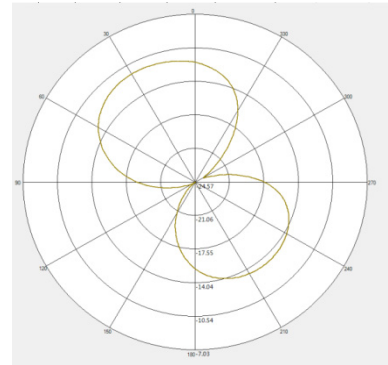
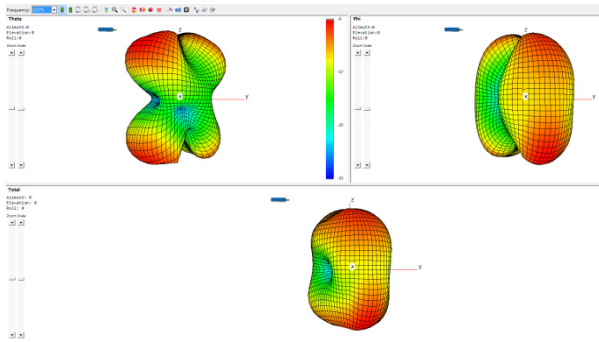


Passive efficiency-FS

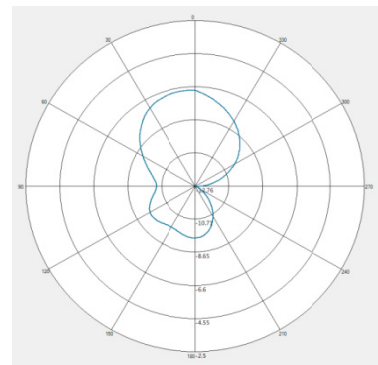
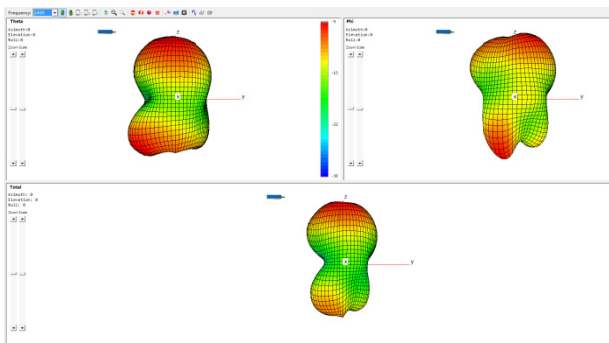
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 1525 | 5.87 | -12.31 | -8.08 |
| 1535 | 6.36 | -11.96 | -7.6 |
| 1545 | 6.63 | -11.78 | -7.1 |
| 1555 | 6.97 | -11.57 | -6.81 |
| 1565 | 6.79 | -11.68 | -6.99 |
| 1575 | 6.69 | -11.75 | -7.04 |
| 1585 | 6.7 | -11.74 | -7.14 |
| 1595 | 6.57 | -11.83 | -7.23 |
| 1605 | 7.19 | -11.43 | -6.71 |
| 1615 | 7.15 | -11.46 | -6.98 |
| 1625 | 7.89 | -11.03 | -6.43 |

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 2400 | 21.34 | -6.71 | -2.5 |
| 2410 | 21.06 | -6.77 | -2.63 |
| 2420 | 22.5 | -6.48 | -2.59 |
| 2430 | 23 | -6.38 | -2.71 |
| 2440 | 24.44 | -6.12 | -2.68 |
| 2450 | 25.13 | -6 | -2.56 |
| 2460 | 24.8 | -6.06 | -2.67 |
| 2470 | 25.91 | -5.87 | -2.37 |
| 2480 | 26.66 | -5.74 | -2.22 |
| 2490 | 27.99 | -5.53 | -2 |
| 2500 | 28.27 | -5.49 | -2.02 |

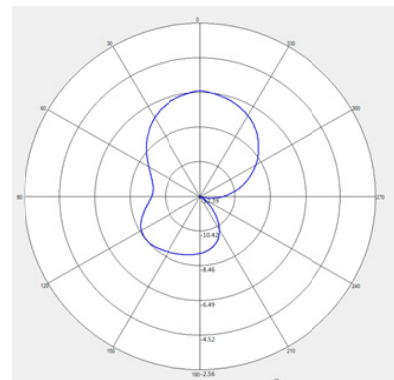
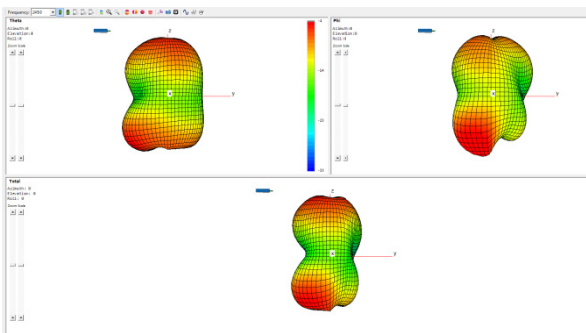
1575M



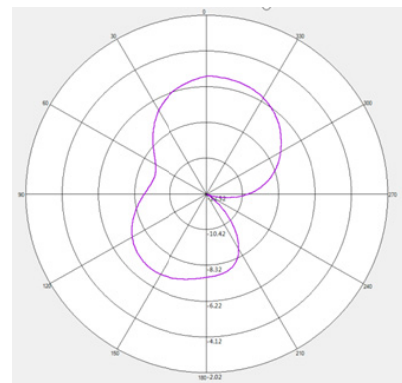
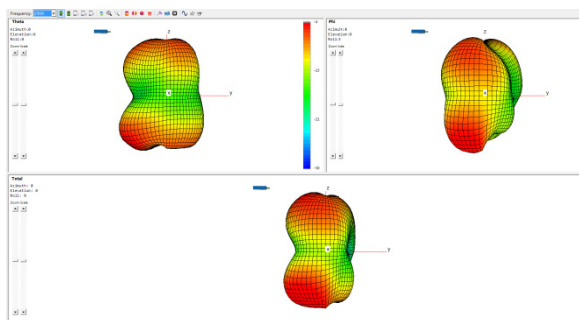
2400M



2450M



2500M

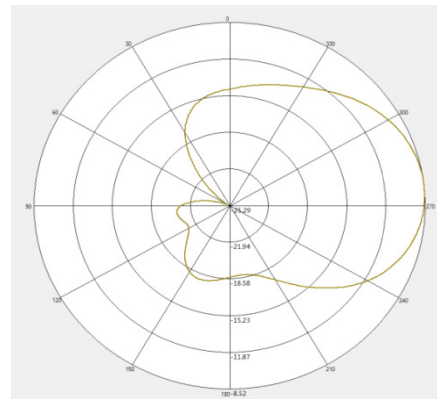
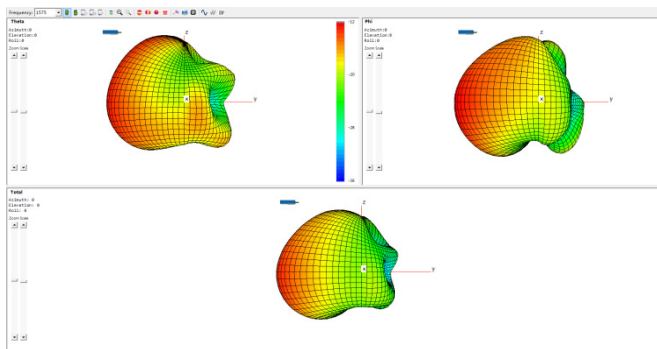


Passive efficiency-ARM

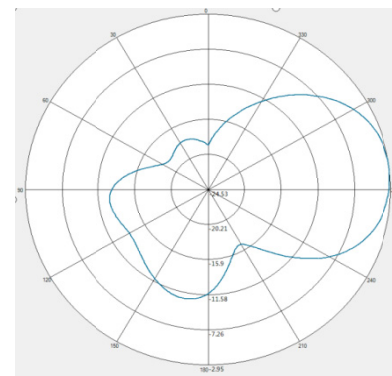
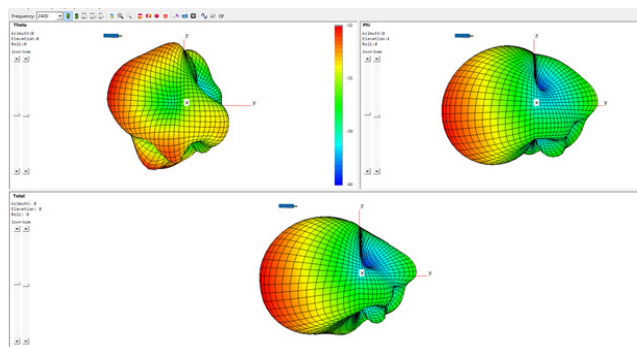
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 1525 | 3.17 | -14.99 | -9.25 |
| 1535 | 3.47 | -14.6 | -8.84 |
| 1545 | 3.52 | -14.54 | -8.73 |
| 1555 | 3.63 | -14.4 | -8.45 |
| 1565 | 3.53 | -14.53 | -8.46 |
| 1575 | 3.41 | -14.68 | -8.61 |
| 1585 | 3.29 | -14.83 | -8.86 |
| 1595 | 3.18 | -14.97 | -9.05 |
| 1605 | 3.43 | -14.64 | -8.64 |
| 1615 | 3.43 | -14.65 | -8.5 |
| 1625 | 3.87 | -14.12 | -7.68 |

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 2400 | 7.98 | -10.98 | -3.12 |
| 2410 | 7.56 | -11.22 | -3.48 |
| 2420 | 7.77 | -11.1 | -3.37 |
| 2430 | 7.94 | -11 | -3.31 |
| 2440 | 8.5 | -10.71 | -3.1 |
| 2450 | 8.63 | -10.64 | -3.07 |
| 2460 | 8.51 | -10.7 | -3.12 |
| 2470 | 8.76 | -10.58 | -3.02 |
| 2480 | 8.99 | -10.46 | -2.74 |
| 2490 | 9.16 | -10.38 | -2.62 |
| 2500 | 8.79 | -10.56 | -2.8 |

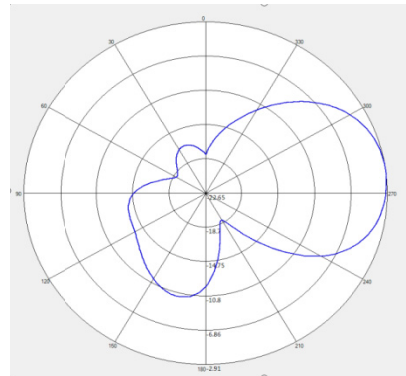
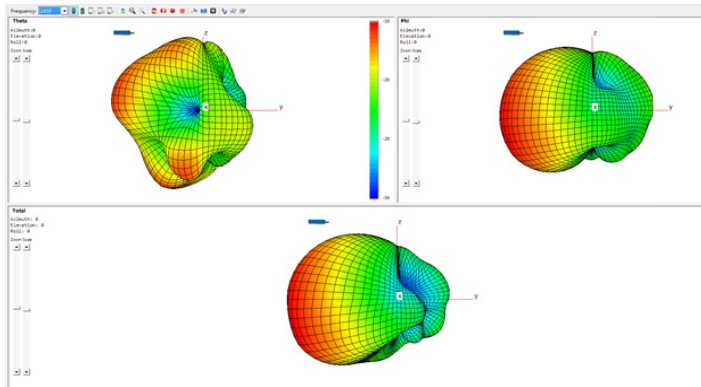
1575M



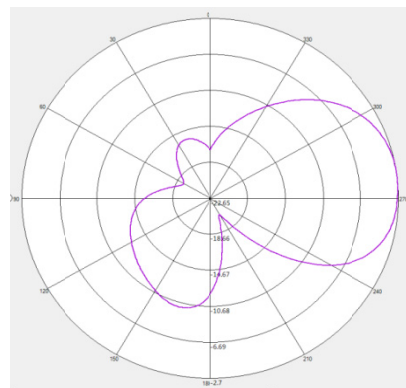
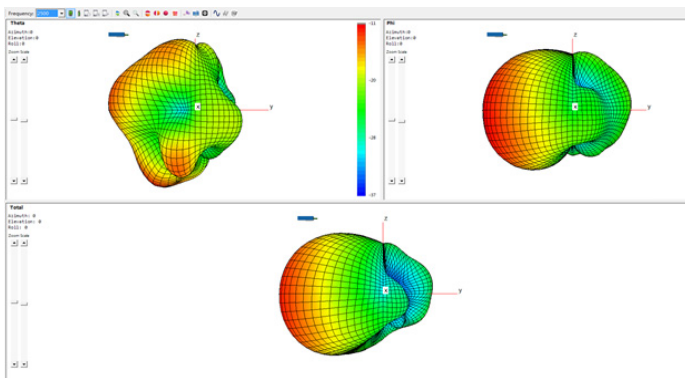
2400M



2450M



2500M



OTA-ARM

| Test | ARM | | |
|-----------|--------|--------|--------|
| | 0 | 39 | 78 |
| TRP (dBm) | -3.45 | -3.52 | -2.57 |
| TIS (dBm) | -81.14 | -81.94 | -82.39 |

GPS/ARM

| |
|---------|
| GPS-TIS |
| -144.39 |