

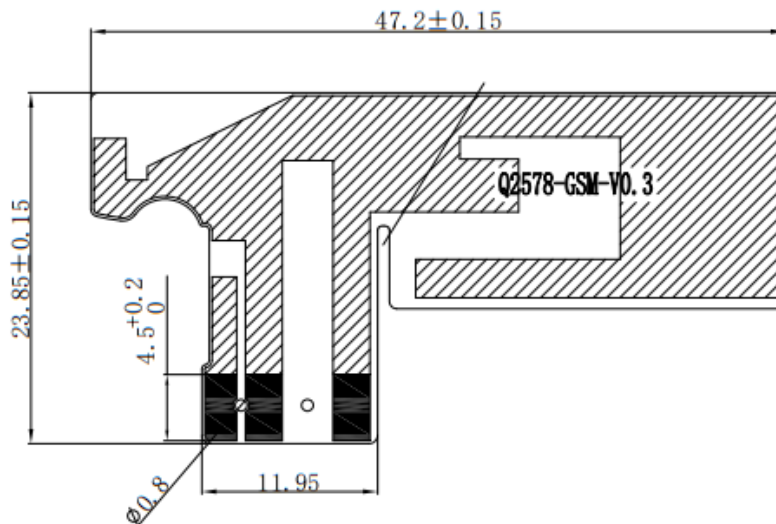
## Feature

- ※ High gain
- ※ Omani-directional
- ※ Wide bandwidth
- ※ Antenna supplier: SHEN ZHEN SHI QIN XIN TECHNOLOGY CO., LTD
- ※ Add: Building A, No.36 Dongcheng Road, Liulian Community, Pingshan Street, Pingshan District, Shenzhen

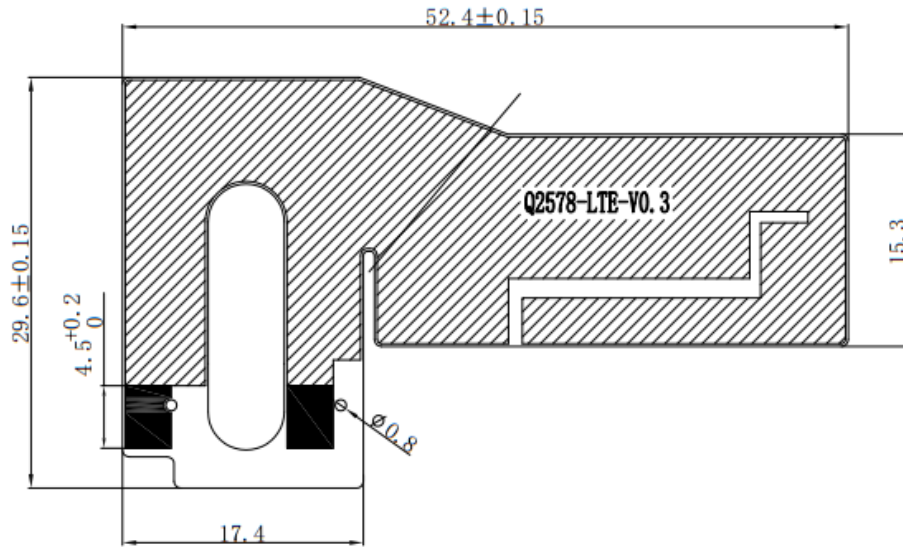
## Application

- ※ GSM850/900/DCS1800/PCS1900,WCDMA/B1/B2/B4/B5/B8, LTE B1 B2 B3 B4 B5 B7 B8 B20 B28 B38 B40 B41 communication applications

GSM Antenna

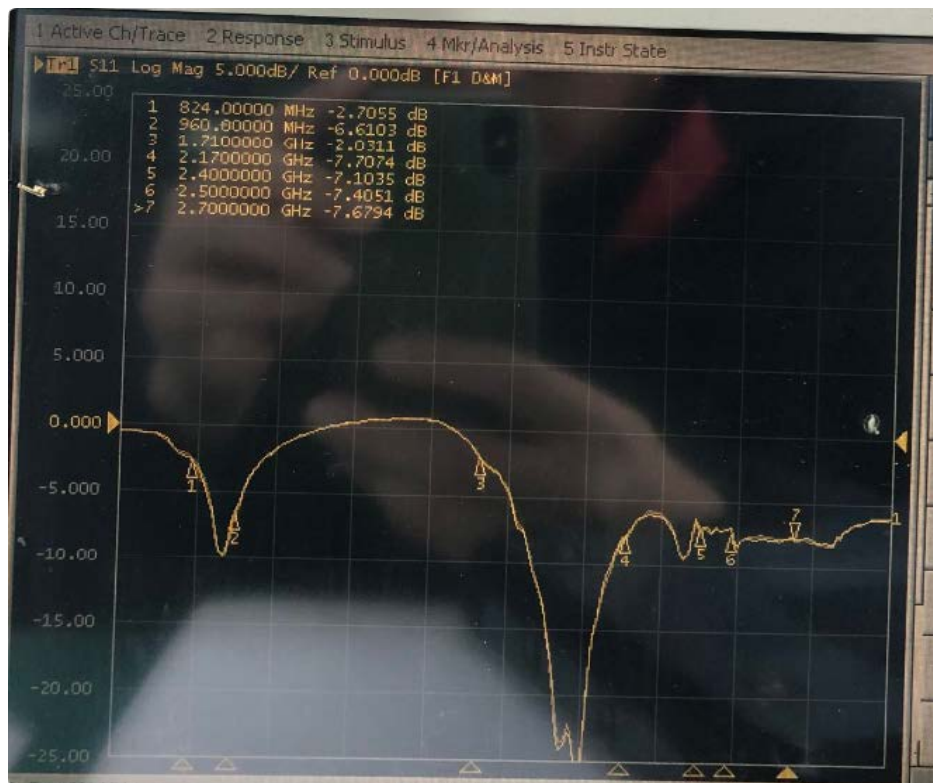


LTE DIV Antenna

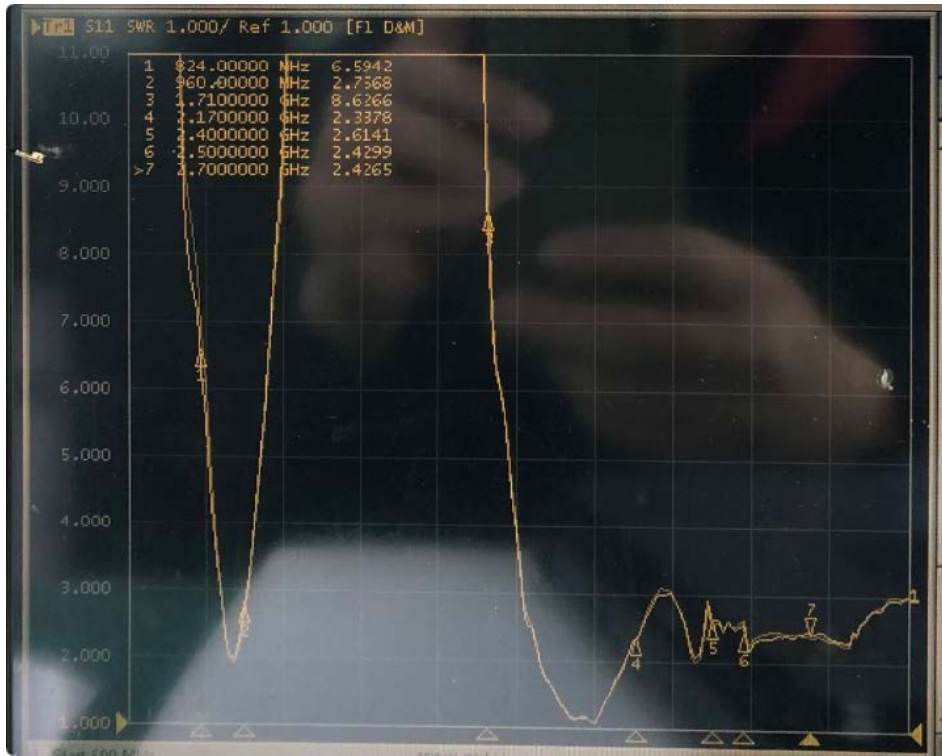


## LTE

### ※ Antenna



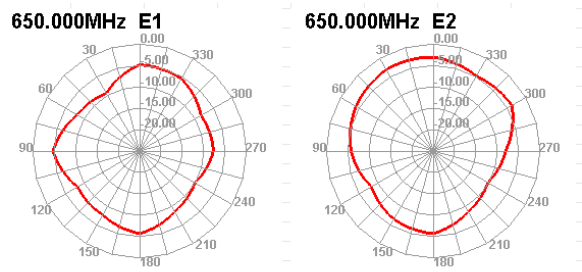
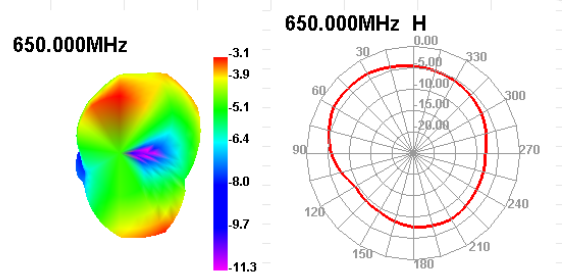
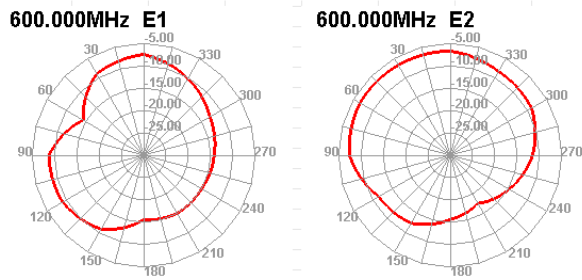
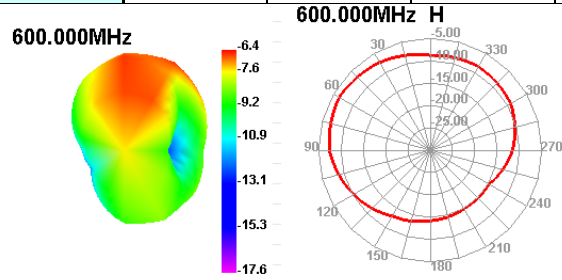
### ※ VSWR

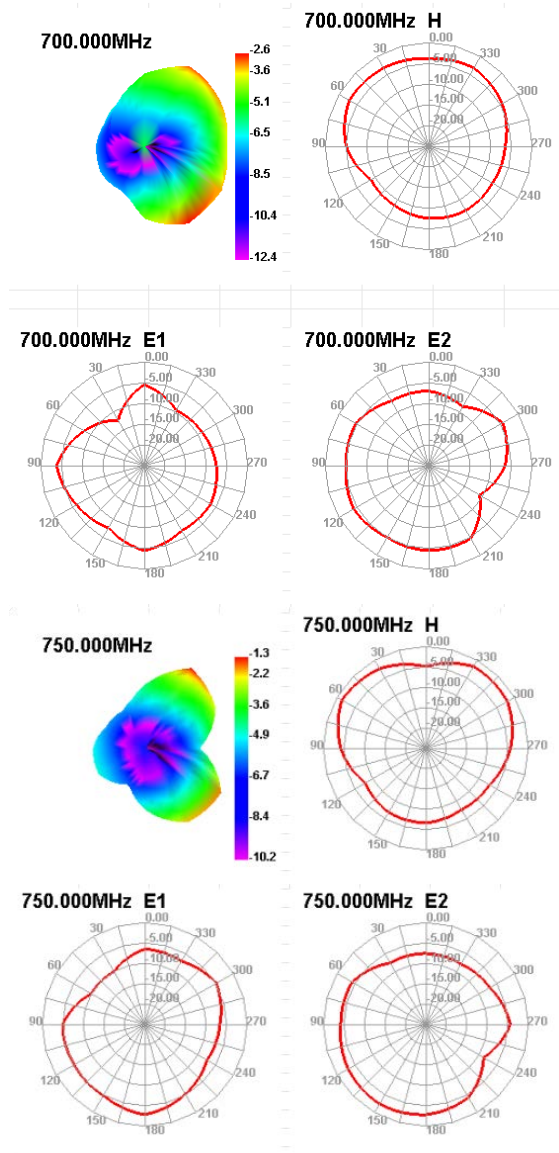


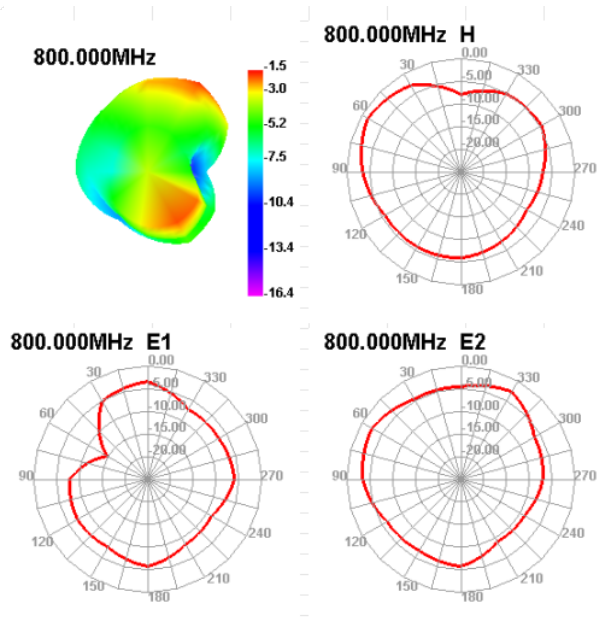
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) |
|------------|----------|-----------|------------|------------|---------|---------|
| 600        | 9.46     | -10.24    | -6.44      | -8.59      | 5.938   | 3.524   |
| 610        | 12.99    | -8.86     | -4.76      | -6.91      | 8.415   | 4.576   |
| 620        | 14.37    | -8.42     | -3.97      | -6.12      | 9.641   | 4.733   |
| 630        | 15.42    | -8.12     | -3.61      | -5.76      | 10.421  | 5.004   |
| 640        | 18.7     | -7.28     | -2.79      | -4.94      | 12.22   | 6.482   |
| 650        | 22.09    | -6.56     | -3.05      | -5.2       | 13.891  | 8.199   |
| 660        | 22.02    | -6.57     | -2.26      | -4.41      | 13.365  | 8.658   |
| 670        | 22.59    | -6.46     | -1.84      | -3.99      | 13.05   | 9.539   |
| 680        | 23.54    | -6.28     | -1.49      | -3.64      | 12.852  | 10.693  |
| 690        | 21.72    | -6.63     | -2.18      | -4.33      | 11.093  | 10.629  |
| 700        | 24.4     | -6.13     | -2.63      | -4.78      | 11.678  | 12.717  |
| 710        | 28.5     | -5.45     | -2.12      | -4.27      | 12.801  | 15.696  |
| 720        | 29.93    | -5.24     | -1.77      | -3.92      | 12.892  | 17.033  |
| 730        | 31.87    | -4.97     | -1.23      | -3.38      | 13.537  | 18.331  |
| 740        | 33.01    | -4.81     | -0.94      | -3.09      | 14.192  | 18.813  |
| 750        | 30.17    | -5.2      | -1.34      | -3.49      | 13.391  | 16.783  |
| 760        | 29.26    | -5.34     | -1.3       | -3.45      | 13.575  | 15.683  |
| 770        | 26.68    | -5.74     | -1.51      | -3.66      | 13.156  | 13.521  |
| 780        | 21.45    | -6.69     | -2.42      | -4.57      | 11.492  | 9.961   |

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|     |       |       |       |       |        |        |
|-----|-------|-------|-------|-------|--------|--------|
| 790 | 20.53 | -6.88 | -2.49 | -4.64 | 11.801 | 8.732  |
| 800 | 25.53 | -5.93 | -1.46 | -3.61 | 15.258 | 10.268 |







| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) |
|---------------|-------------|--------------|---------------|---------------|------------|------------|
| 810           | 25.03       | -6.02        | -1.42         | -3.57         | 12.463     | 12.567     |
| 820           | 24.87       | -6.04        | -1.78         | -3.93         | 13.125     | 11.749     |
| 830           | 24.58       | -6.09        | -1.61         | -3.76         | 13.478     | 11.106     |
| 840           | 26.93       | -5.7         | -1.43         | -3.58         | 14.685     | 12.249     |
| 850           | 30.65       | -5.14        | -1.47         | -3.62         | 16.279     | 14.375     |
| 860           | 32.42       | -4.89        | -1.42         | -3.57         | 16.762     | 15.662     |
| 870           | 33.75       | -4.72        | -1.49         | -3.64         | 17.162     | 16.583     |
| 880           | 34.86       | -4.58        | -0.91         | -3.06         | 17.69      | 17.171     |
| 890           | 37.48       | -4.26        | -0.04         | -2.19         | 18.735     | 18.747     |
| 900           | 38.08       | -4.19        | 0.48          | -1.67         | 18.561     | 19.52      |
| 910           | 40.52       | -3.92        | 1.06          | -1.09         | 19.338     | 21.183     |
| 920           | 39.55       | -4.03        | 1.13          | -1.02         | 18.297     | 21.251     |
| 930           | 36.47       | -4.38        | 0.99          | -1.16         | 16.548     | 19.918     |
| 940           | 34.35       | -4.64        | 0.68          | -1.47         | 15.605     | 18.746     |
| 950           | 32.24       | -4.92        | 0.51          | -1.64         | 14.805     | 17.435     |
| 960           | 29.65       | -5.28        | 0.16          | -1.99         | 13.826     | 15.824     |
| 970           | 27.65       | -5.58        | -0.32         | -2.47         | 12.795     | 14.856     |
| 980           | 25.85       | -5.88        | -0.82         | -2.97         | 11.917     | 13.934     |
| 990           | 22.52       | -6.47        | -1.65         | -3.8          | 10.438     | 12.08      |
| 1000          | 26.17       | -5.82        | -1.11         | -3.26         | 12.327     | 13.844     |
| 1010          | 20.51       | -6.88        | -2.11         | -4.26         | 9.907      | 10.607     |
| 1020          | 17.05       | -7.68        | -2.68         | -4.83         | 8.475      | 8.576      |
| 1030          | 15.4        | -8.12        | -2.83         | -4.98         | 7.816      | 7.586      |
| 1040          | 13.5        | -8.7         | -3.39         | -5.54         | 6.939      | 6.563      |
| 1050          | 12.3        | -9.1         | -3.95         | -6.1          | 6.369      | 5.932      |
| 1060          | 10.79       | -9.67        | -4.97         | -7.12         | 5.727      | 5.067      |
| 1070          | 10.09       | -9.96        | -5.58         | -7.73         | 5.456      | 4.631      |
| 1080          | 9.48        | -10.23       | -5.88         | -8.03         | 5.257      | 4.224      |

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|      |       |        |       |        |       |       |
|------|-------|--------|-------|--------|-------|-------|
| 1090 | 8.64  | -10.63 | -6.2  | -8.35  | 4.953 | 3.691 |
| 1100 | 8.37  | -10.77 | -6.43 | -8.58  | 4.894 | 3.475 |
| 1110 | 7.69  | -11.14 | -6.74 | -8.89  | 4.591 | 3.097 |
| 1120 | 7.49  | -11.26 | -6.98 | -9.13  | 4.526 | 2.962 |
| 1130 | 7.35  | -11.34 | -7.27 | -9.42  | 4.482 | 2.871 |
| 1140 | 7.14  | -11.46 | -6.96 | -9.11  | 4.397 | 2.742 |
| 1150 | 7.65  | -11.16 | -6.62 | -8.77  | 4.73  | 2.918 |
| 1160 | 6.73  | -11.72 | -6.68 | -8.83  | 4.199 | 2.527 |
| 1170 | 6.64  | -11.78 | -6.96 | -9.11  | 4.021 | 2.616 |
| 1180 | 6.43  | -11.92 | -7.51 | -9.66  | 3.747 | 2.679 |
| 1190 | 6.07  | -12.17 | -7.87 | -10.02 | 3.44  | 2.628 |
| 1200 | 6.17  | -12.1  | -7.81 | -9.96  | 3.411 | 2.754 |
| 1210 | 5.78  | -12.38 | -7.86 | -10.01 | 3.119 | 2.664 |
| 1220 | 5.36  | -12.71 | -8.03 | -10.18 | 2.796 | 2.564 |
| 1230 | 4.89  | -13.11 | -8.35 | -10.5  | 2.425 | 2.465 |
| 1240 | 4.51  | -13.46 | -8.5  | -10.65 | 2.086 | 2.42  |
| 1250 | 4.27  | -13.7  | -8.52 | -10.67 | 1.839 | 2.429 |
| 1260 | 3.89  | -14.1  | -8.69 | -10.84 | 1.589 | 2.302 |
| 1270 | 4.01  | -13.97 | -8.28 | -10.43 | 1.604 | 2.406 |
| 1280 | 3.71  | -14.31 | -8.46 | -10.61 | 1.481 | 2.227 |
| 1290 | 3.93  | -14.05 | -8.17 | -10.32 | 1.595 | 2.339 |
| 1300 | 4.09  | -13.89 | -8.13 | -10.28 | 1.678 | 2.408 |
| 1310 | 3.93  | -14.06 | -8.5  | -10.65 | 1.632 | 2.297 |
| 1320 | 4.07  | -13.91 | -8.5  | -10.65 | 1.704 | 2.364 |
| 1330 | 3.74  | -14.27 | -8.98 | -11.13 | 1.568 | 2.174 |
| 1340 | 3.83  | -14.17 | -8.82 | -10.97 | 1.595 | 2.234 |
| 1350 | 4.32  | -13.64 | -8.2  | -10.35 | 1.794 | 2.528 |
| 1360 | 4.3   | -13.67 | -8.2  | -10.35 | 1.763 | 2.535 |
| 1370 | 4.75  | -13.24 | -7.84 | -9.99  | 1.946 | 2.801 |
| 1380 | 4.55  | -13.42 | -8.16 | -10.31 | 1.864 | 2.689 |
| 1390 | 5.08  | -12.94 | -7.88 | -10.03 | 2.08  | 3.003 |
| 1400 | 5.47  | -12.62 | -7.76 | -9.91  | 2.258 | 3.212 |
| 1410 | 5.76  | -12.39 | -7.69 | -9.84  | 2.386 | 3.377 |
| 1420 | 6.29  | -12.01 | -7.3  | -9.45  | 2.673 | 3.619 |
| 1430 | 6.31  | -12    | -7.42 | -9.57  | 2.721 | 3.594 |
| 1440 | 6.52  | -11.86 | -7.64 | -9.79  | 2.827 | 3.69  |
| 1450 | 6.87  | -11.63 | -7.42 | -9.57  | 3.014 | 3.857 |
| 1460 | 7.39  | -11.31 | -7.02 | -9.17  | 3.291 | 4.102 |
| 1470 | 7.47  | -11.26 | -6.89 | -9.04  | 3.418 | 4.057 |
| 1480 | 7.66  | -11.16 | -6.72 | -8.87  | 3.54  | 4.122 |
| 1490 | 8.41  | -10.75 | -6.25 | -8.4   | 3.872 | 4.537 |
| 1500 | 9.04  | -10.44 | -6.14 | -8.29  | 4.09  | 4.945 |
| 1510 | 10.43 | -9.82  | -5.71 | -7.86  | 4.695 | 5.732 |
| 1520 | 11.4  | -9.43  | -5.4  | -7.55  | 5.195 | 6.208 |
| 1530 | 11.69 | -9.32  | -5.49 | -7.64  | 5.36  | 6.333 |
| 1540 | 12.2  | -9.14  | -5.46 | -7.61  | 5.584 | 6.614 |
| 1550 | 13.84 | -8.59  | -4.91 | -7.06  | 6.302 | 7.533 |

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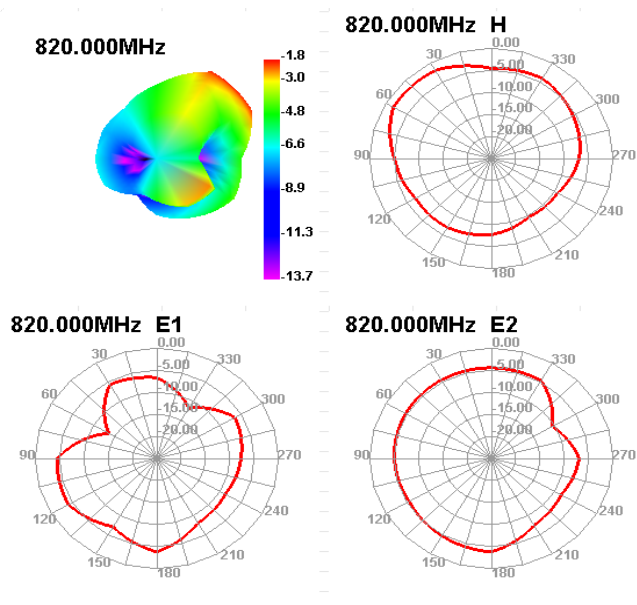
|      |       |       |       |       |        |        |
|------|-------|-------|-------|-------|--------|--------|
| 1560 | 14.08 | -8.51 | -4.9  | -7.05 | 6.4    | 7.681  |
| 1570 | 14.29 | -8.45 | -4.87 | -7.02 | 6.486  | 7.8    |
| 1580 | 15.7  | -8.04 | -4.48 | -6.63 | 7.078  | 8.626  |
| 1590 | 13.66 | -8.64 | -5.1  | -7.25 | 6.089  | 7.573  |
| 1600 | 15.14 | -8.2  | -4.67 | -6.82 | 6.701  | 8.436  |
| 1610 | 16.51 | -7.82 | -4.18 | -6.33 | 7.374  | 9.137  |
| 1620 | 16.08 | -7.94 | -4.37 | -6.52 | 7.162  | 8.923  |
| 1630 | 17.54 | -7.56 | -3.82 | -5.97 | 7.677  | 9.862  |
| 1640 | 17.54 | -7.56 | -3.63 | -5.78 | 7.636  | 9.901  |
| 1650 | 18.91 | -7.23 | -3.09 | -5.24 | 8.119  | 10.79  |
| 1660 | 22.43 | -6.49 | -2.21 | -4.36 | 9.646  | 12.782 |
| 1670 | 24.2  | -6.16 | -1.76 | -3.91 | 10.372 | 13.824 |
| 1680 | 22.4  | -6.5  | -1.96 | -4.11 | 9.54   | 12.862 |
| 1690 | 22.58 | -6.46 | -1.69 | -3.84 | 9.509  | 13.072 |
| 1700 | 30.83 | -5.11 | -0.08 | -2.23 | 13.224 | 17.609 |
| 1710 | 31.59 | -5    | 0.2   | -1.95 | 13.763 | 17.825 |
| 1720 | 36.27 | -4.4  | 0.9   | -1.25 | 15.864 | 20.409 |
| 1730 | 33.3  | -4.78 | 0.65  | -1.5  | 14.434 | 18.864 |
| 1740 | 32.26 | -4.91 | 0.77  | -1.38 | 13.879 | 18.377 |
| 1750 | 34.55 | -4.62 | 1.4   | -0.75 | 14.86  | 19.692 |
| 1760 | 35.8  | -4.46 | 1.87  | -0.28 | 15.633 | 20.165 |
| 1770 | 38.38 | -4.16 | 2.31  | 0.16  | 17.147 | 21.238 |
| 1780 | 38.34 | -4.16 | 2.45  | 0.3   | 17.107 | 21.235 |
| 1790 | 35.16 | -4.54 | 2.18  | 0.03  | 15.605 | 19.554 |
| 1800 | 36.64 | -4.36 | 2.35  | 0.2   | 16.339 | 20.301 |
| 1810 | 37.08 | -4.31 | 2.48  | 0.33  | 16.694 | 20.385 |
| 1820 | 37.53 | -4.26 | 2.43  | 0.28  | 17.027 | 20.501 |
| 1830 | 36.73 | -4.35 | 2.1   | -0.05 | 16.694 | 20.039 |
| 1840 | 36.56 | -4.37 | 2.09  | -0.06 | 16.435 | 20.13  |
| 1850 | 39.05 | -4.08 | 2.35  | 0.2   | 17.766 | 21.289 |
| 1860 | 39.37 | -4.05 | 2.17  | 0.02  | 18.207 | 21.161 |
| 1870 | 37.78 | -4.23 | 1.87  | -0.28 | 17.574 | 20.202 |
| 1880 | 38.1  | -4.19 | 1.78  | -0.37 | 17.783 | 20.315 |
| 1890 | 40.15 | -3.96 | 1.88  | -0.27 | 18.891 | 21.258 |
| 1900 | 43.5  | -3.62 | 2.21  | 0.06  | 20.622 | 22.876 |
| 1910 | 45.09 | -3.46 | 2.33  | 0.18  | 21.821 | 23.274 |
| 1920 | 39.33 | -4.05 | 1.78  | -0.37 | 19.59  | 19.737 |
| 1930 | 39.27 | -4.06 | 2.04  | -0.11 | 20.108 | 19.164 |
| 1940 | 37.47 | -4.26 | 1.92  | -0.23 | 19.959 | 17.511 |
| 1950 | 40.18 | -3.96 | 2.15  | 0     | 22.216 | 17.962 |
| 1960 | 42.81 | -3.68 | 2.44  | 0.29  | 24.301 | 18.511 |
| 1970 | 37.97 | -4.21 | 1.94  | -0.21 | 21.893 | 16.077 |
| 1980 | 35.18 | -4.54 | 1.5   | -0.65 | 20.639 | 14.542 |
| 1990 | 33.58 | -4.74 | 1.11  | -1.04 | 19.986 | 13.59  |
| 2000 | 32.25 | -4.91 | 0.58  | -1.57 | 19.446 | 12.808 |
| 2010 | 35.82 | -4.46 | 0.54  | -1.61 | 21.691 | 14.124 |
| 2020 | 33.64 | -4.73 | 0.5   | -1.65 | 20.385 | 13.25  |

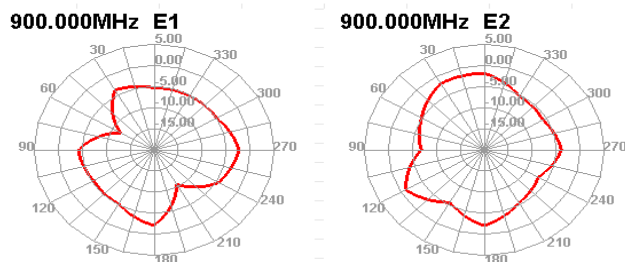
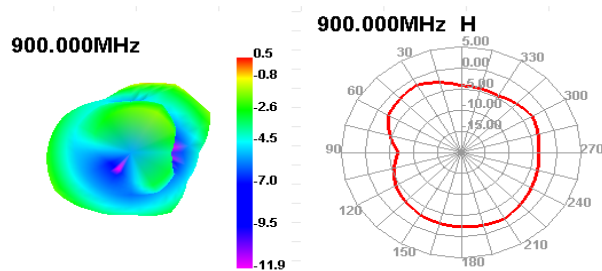
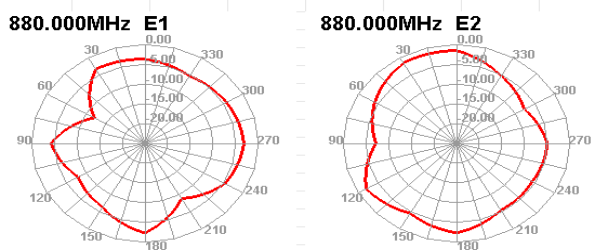
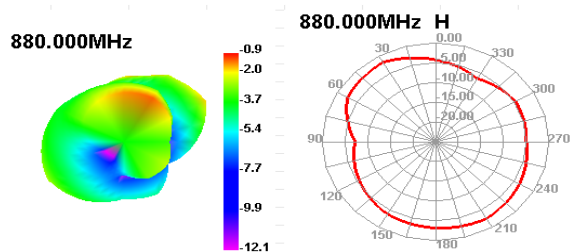
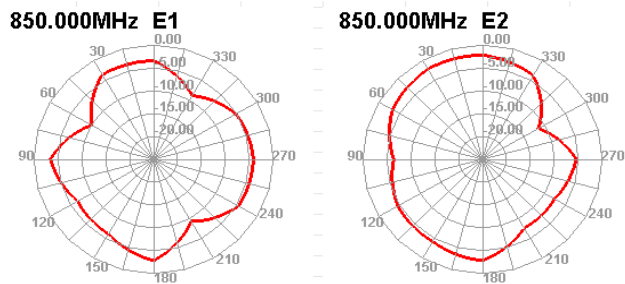
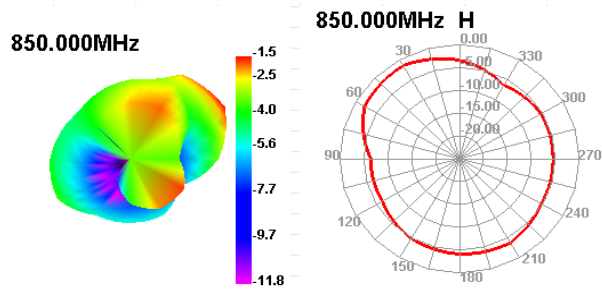
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|      |       |       |       |       |        |        |
|------|-------|-------|-------|-------|--------|--------|
| 2030 | 29.69 | -5.27 | 0.05  | -2.1  | 17.984 | 11.71  |
| 2040 | 28.65 | -5.43 | -0.09 | -2.24 | 17.404 | 11.249 |
| 2050 | 26.77 | -5.72 | -0.7  | -2.85 | 16.315 | 10.454 |
| 2060 | 31.9  | -4.96 | -0.29 | -2.44 | 19.441 | 12.458 |
| 2070 | 33.77 | -4.71 | -0.29 | -2.44 | 20.545 | 13.225 |
| 2080 | 32.5  | -4.88 | -0.78 | -2.93 | 19.605 | 12.896 |
| 2090 | 30.59 | -5.14 | -1.21 | -3.36 | 18.225 | 12.368 |
| 2100 | 27.69 | -5.58 | -1.71 | -3.86 | 16.434 | 11.256 |
| 2110 | 25.39 | -5.95 | -2.05 | -4.2  | 15.03  | 10.362 |
| 2120 | 25.62 | -5.91 | -1.92 | -4.07 | 15.084 | 10.539 |
| 2130 | 25.52 | -5.93 | -1.94 | -4.09 | 14.979 | 10.545 |
| 2140 | 28.34 | -5.48 | -1.66 | -3.81 | 16.383 | 11.954 |
| 2150 | 26.3  | -5.8  | -1.76 | -3.91 | 14.979 | 11.324 |
| 2160 | 24.21 | -6.16 | -1.89 | -4.04 | 13.532 | 10.678 |
| 2170 | 25.38 | -5.95 | -1.69 | -3.84 | 13.943 | 11.441 |
| 2180 | 26.97 | -5.69 | -1.44 | -3.59 | 14.536 | 12.43  |
| 2190 | 30.13 | -5.21 | -0.74 | -2.89 | 15.932 | 14.194 |
| 2200 | 31.53 | -5.01 | -0.37 | -2.52 | 16.446 | 15.08  |
| 2210 | 29.52 | -5.3  | -0.48 | -2.63 | 15.248 | 14.277 |
| 2220 | 29.46 | -5.31 | -0.28 | -2.43 | 15.058 | 14.404 |
| 2230 | 32.74 | -4.85 | 0.29  | -1.86 | 16.53  | 16.207 |
| 2240 | 34.75 | -4.59 | 0.55  | -1.6  | 17.281 | 17.466 |
| 2250 | 34.5  | -4.62 | 0.45  | -1.7  | 16.968 | 17.528 |
| 2260 | 34.67 | -4.6  | 0.39  | -1.76 | 16.988 | 17.678 |
| 2270 | 30.65 | -5.14 | -0.1  | -2.25 | 14.937 | 15.713 |
| 2280 | 29.71 | -5.27 | -0.19 | -2.34 | 14.498 | 15.215 |
| 2290 | 31.12 | -5.07 | 0.06  | -2.09 | 15.279 | 15.838 |
| 2300 | 29.2  | -5.35 | -0.36 | -2.51 | 14.432 | 14.768 |
| 2310 | 31.29 | -5.05 | -0.09 | -2.24 | 15.371 | 15.921 |
| 2320 | 28.75 | -5.41 | -0.58 | -2.73 | 14.081 | 14.669 |
| 2330 | 27.21 | -5.65 | -0.89 | -3.04 | 13.257 | 13.95  |
| 2340 | 31.01 | -5.09 | -0.43 | -2.58 | 15.223 | 15.785 |
| 2350 | 31.38 | -5.03 | -0.47 | -2.62 | 15.55  | 15.831 |
| 2360 | 33.25 | -4.78 | -0.17 | -2.32 | 16.593 | 16.655 |
| 2370 | 32.16 | -4.93 | -0.23 | -2.38 | 16.114 | 16.044 |
| 2380 | 31.6  | -5    | -0.27 | -2.42 | 15.819 | 15.784 |
| 2390 | 34.36 | -4.64 | 0.11  | -2.04 | 17.146 | 17.214 |
| 2400 | 37.67 | -4.24 | 0.47  | -1.68 | 18.643 | 19.026 |
| 2410 | 38.54 | -4.14 | 0.51  | -1.64 | 18.936 | 19.608 |
| 2420 | 38.05 | -4.2  | 0.46  | -1.69 | 18.406 | 19.641 |
| 2430 | 38.18 | -4.18 | 0.48  | -1.67 | 18.197 | 19.98  |
| 2440 | 37.69 | -4.24 | 0.42  | -1.73 | 17.77  | 19.917 |
| 2450 | 40.05 | -3.97 | 0.61  | -1.54 | 18.68  | 21.369 |
| 2460 | 40.16 | -3.96 | 0.48  | -1.67 | 18.592 | 21.571 |
| 2470 | 39.51 | -4.03 | 0.26  | -1.89 | 18.105 | 21.405 |
| 2480 | 40.51 | -3.92 | 0.5   | -1.65 | 18.545 | 21.963 |
| 2490 | 42.49 | -3.72 | 0.84  | -1.31 | 19.319 | 23.171 |

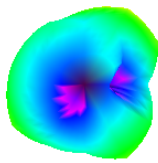
**深圳市勤新科技有限公司**  
**SHEN ZHEN SHI QIN XIN TECHNOLOGY CO., LTD**

|      |       |       |       |       |        |        |
|------|-------|-------|-------|-------|--------|--------|
| 2500 | 41.5  | -3.82 | 0.74  | -1.41 | 18.808 | 22.695 |
| 2510 | 38.92 | -4.1  | 0.5   | -1.65 | 17.615 | 21.307 |
| 2520 | 37.21 | -4.29 | 0.35  | -1.8  | 16.769 | 20.445 |
| 2530 | 36.5  | -4.38 | 0.16  | -1.99 | 16.283 | 20.212 |
| 2540 | 35.56 | -4.49 | 0.1   | -2.05 | 15.806 | 19.758 |
| 2550 | 36.58 | -4.37 | 0.31  | -1.84 | 16.194 | 20.388 |
| 2560 | 34.16 | -4.67 | 0.11  | -2.04 | 15.084 | 19.074 |
| 2570 | 33.03 | -4.81 | 0.09  | -2.06 | 14.632 | 18.398 |
| 2580 | 31.71 | -4.99 | 0.08  | -2.07 | 14.013 | 17.697 |
| 2590 | 31.53 | -5.01 | 0.26  | -1.89 | 13.937 | 17.597 |
| 2600 | 31.19 | -5.06 | 0.33  | -1.82 | 13.733 | 17.456 |
| 2610 | 32.78 | -4.84 | 0.6   | -1.55 | 14.334 | 18.45  |
| 2620 | 28.32 | -5.48 | 0.07  | -2.08 | 12.233 | 16.088 |
| 2630 | 25.6  | -5.92 | -0.33 | -2.48 | 11.071 | 14.529 |
| 2640 | 27.5  | -5.61 | -0.08 | -2.23 | 11.83  | 15.665 |
| 2650 | 26.02 | -5.85 | -0.29 | -2.44 | 11.174 | 14.841 |
| 2660 | 26.46 | -5.77 | -0.31 | -2.46 | 11.186 | 15.273 |
| 2670 | 27.29 | -5.64 | -0.25 | -2.4  | 11.473 | 15.813 |
| 2680 | 22.96 | -6.39 | -0.92 | -3.07 | 9.559  | 13.397 |
| 2690 | 21.83 | -6.61 | -1.14 | -3.29 | 9.008  | 12.821 |
| 2700 | 20.68 | -6.84 | -1.44 | -3.59 | 8.447  | 12.235 |

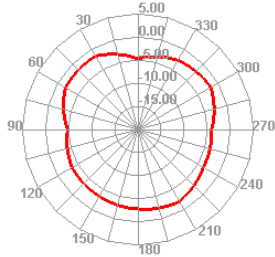




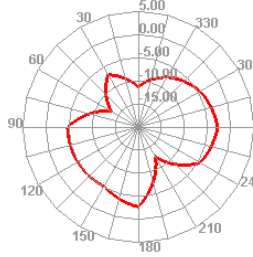
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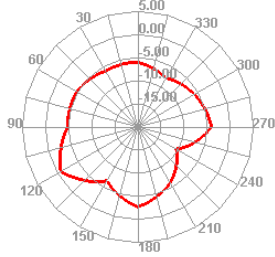
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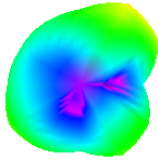
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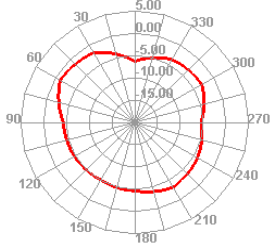
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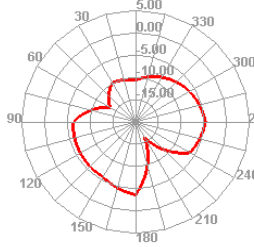
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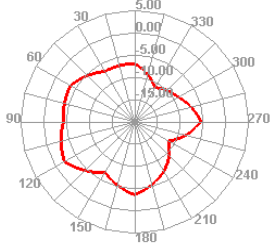
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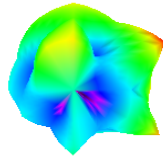
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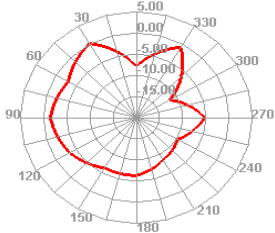
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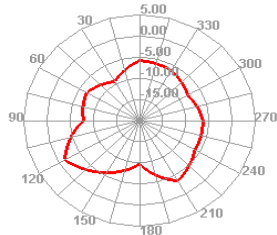
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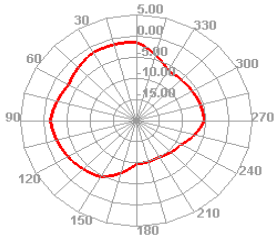
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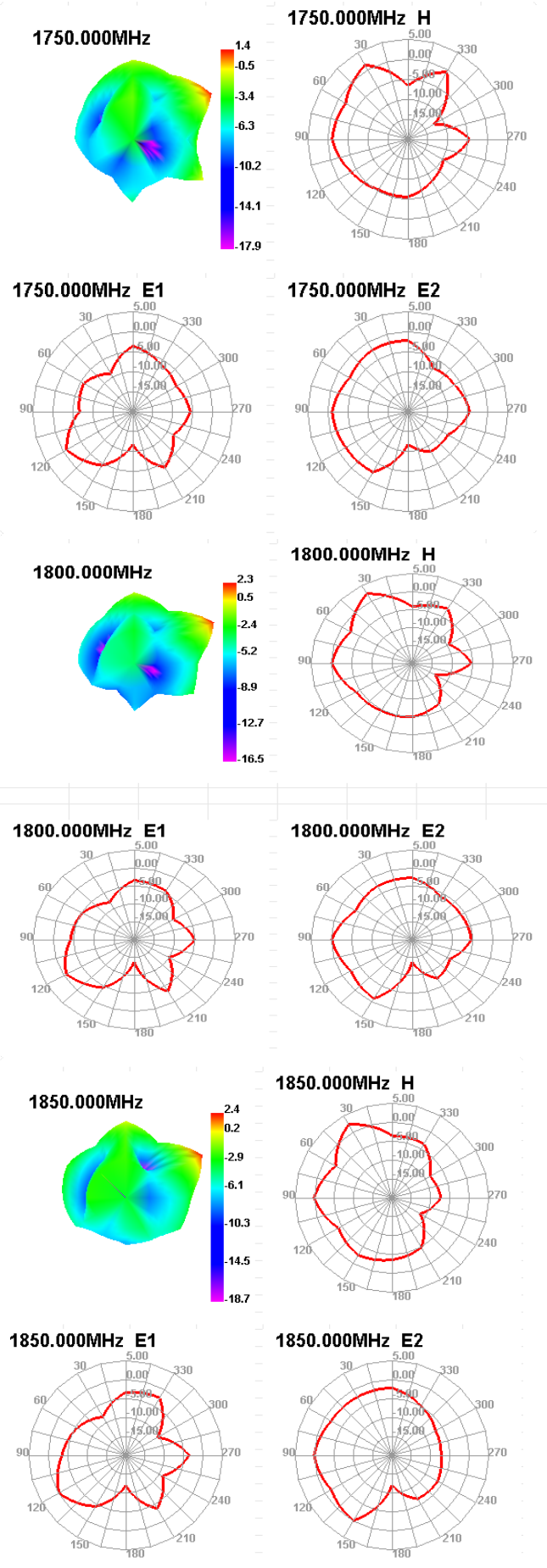


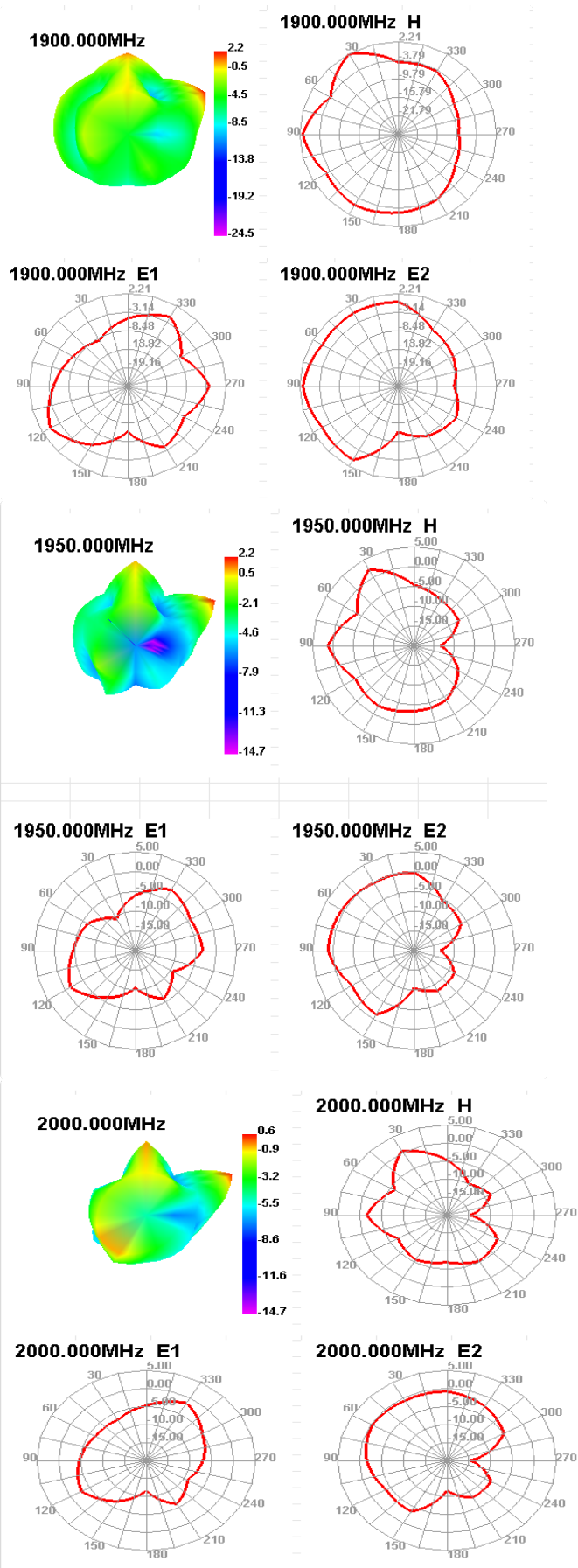
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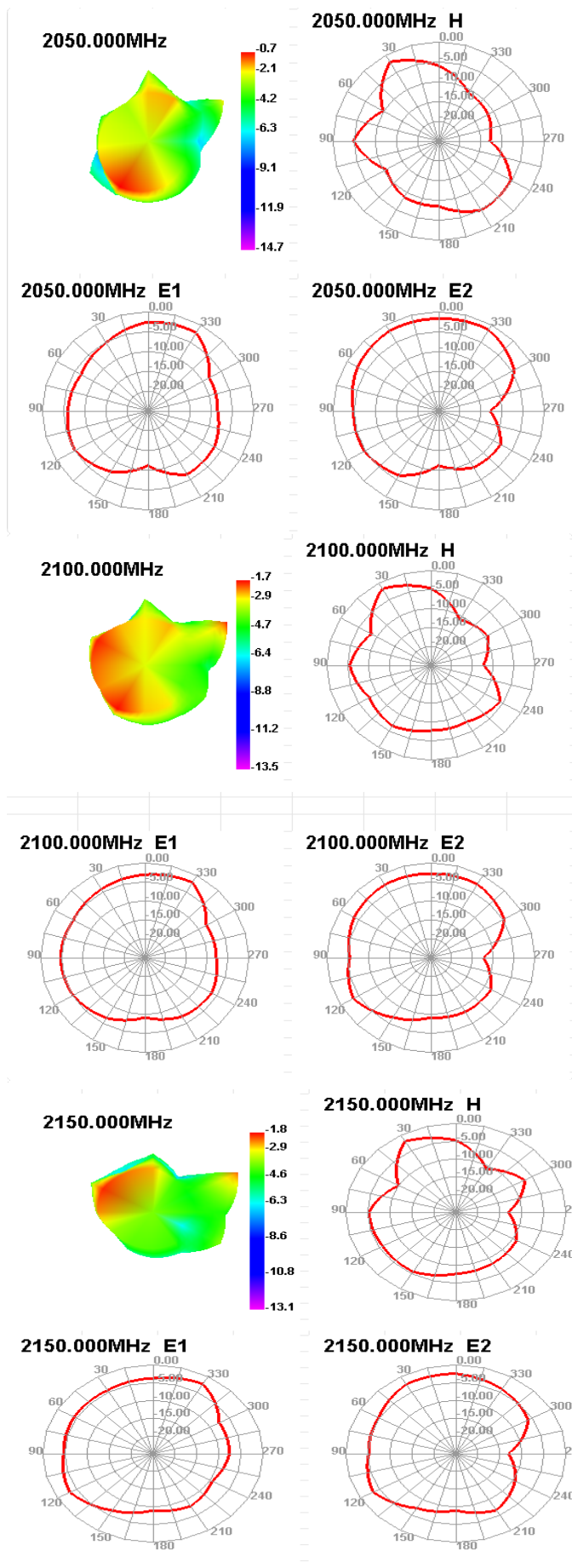


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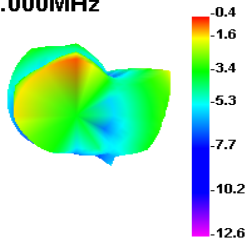




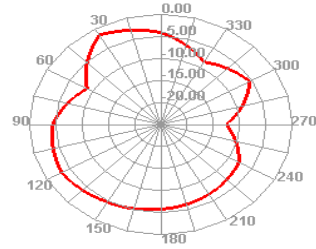




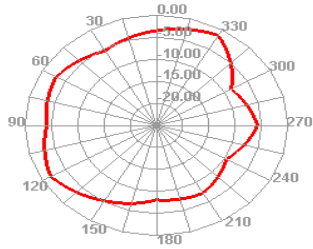
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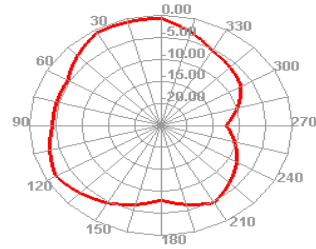
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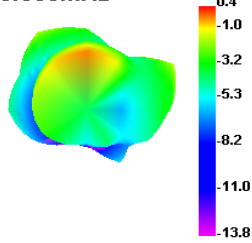
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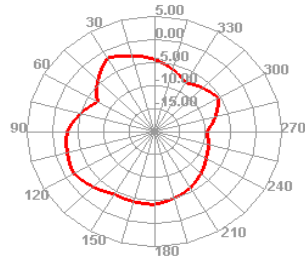
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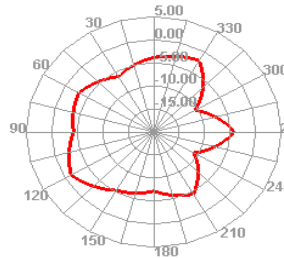
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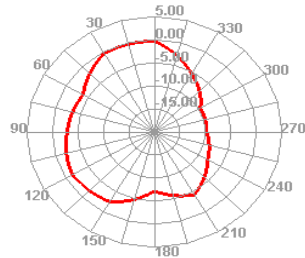
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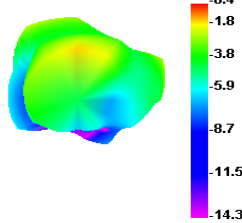
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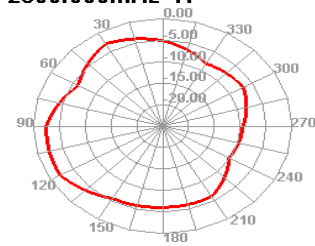
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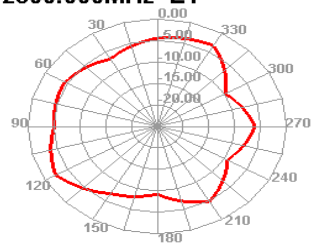
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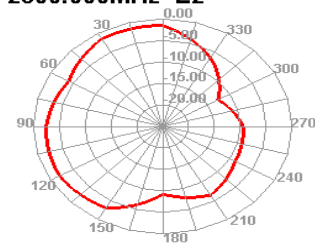
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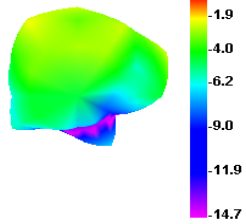
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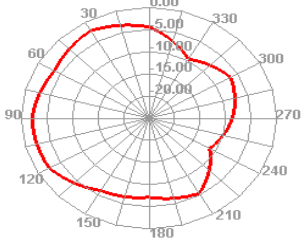
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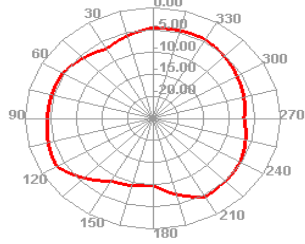
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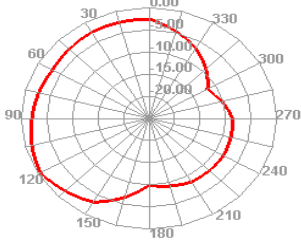
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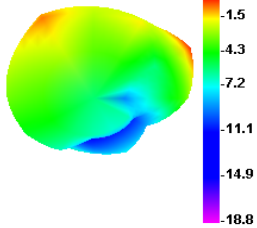
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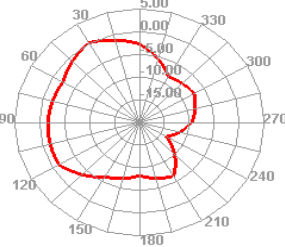
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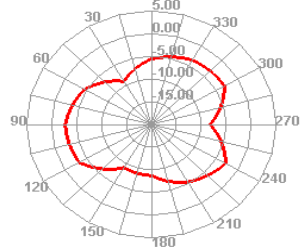
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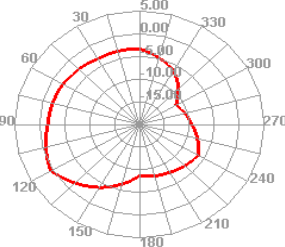
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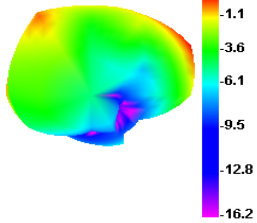
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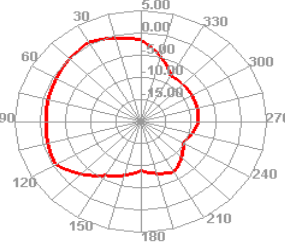
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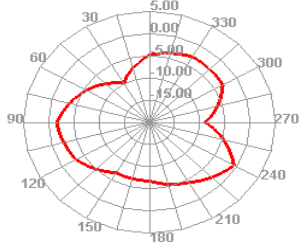
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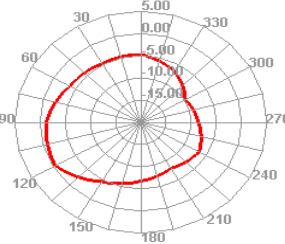
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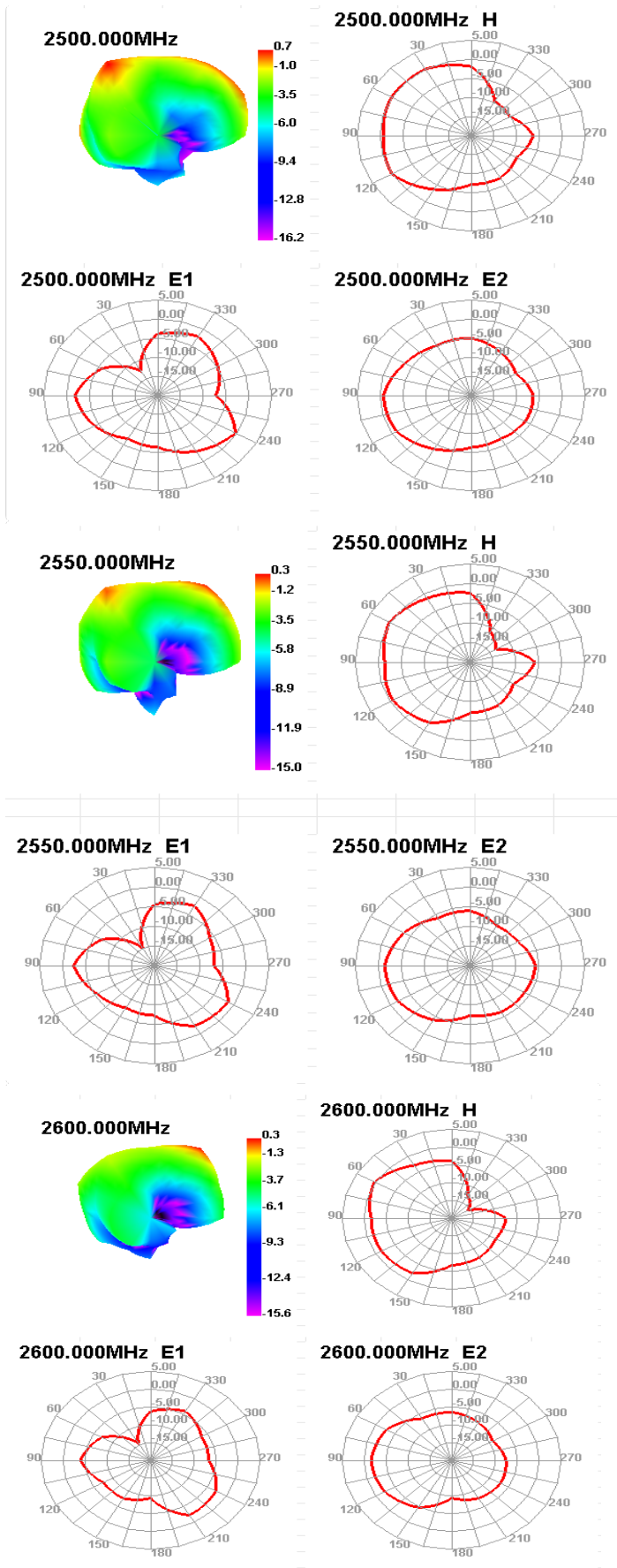


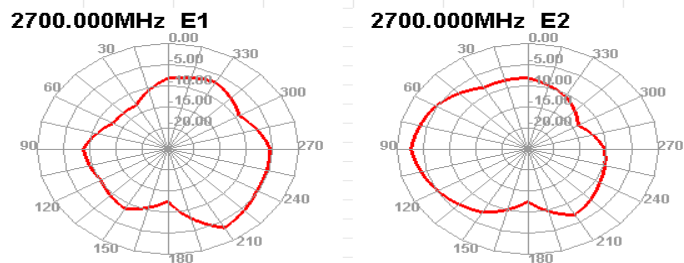
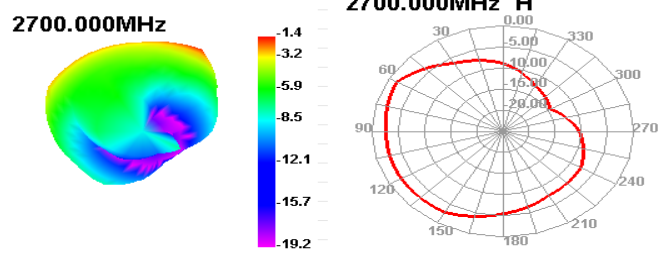
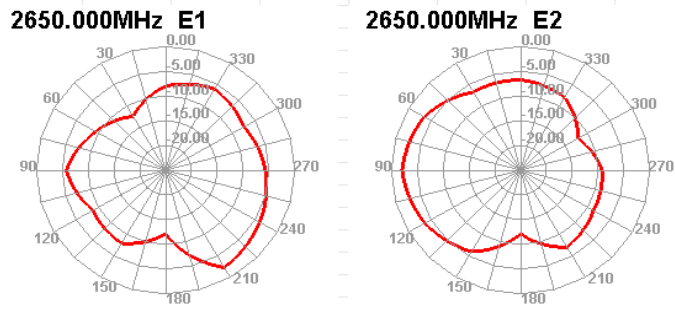
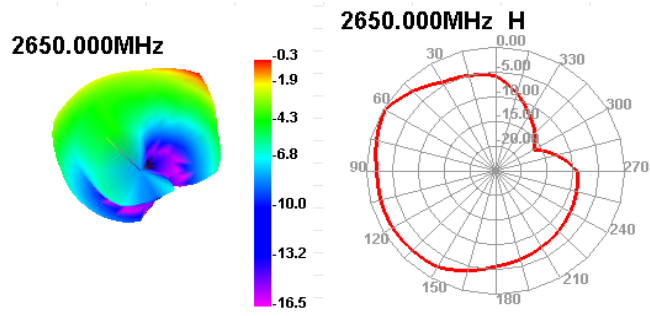
2450.000MHz E1



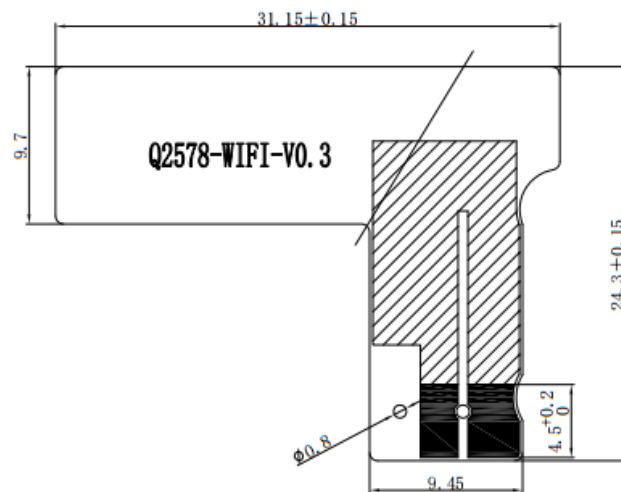
2450.000MHz E2







WIFI/BT Antenna



※ Antenna



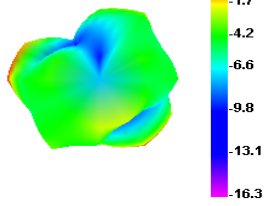
※ VSWR



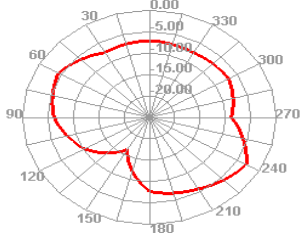
Passive Test For 2.4G Wi-Fi

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) |
|---------------|-------------|--------------|---------------|---------------|------------|------------|
| 2380          | 31.28       | -5.05        | -0.62         | -2.77         | 12.389     | 18.888     |
| 2390          | 32.79       | -4.84        | -0.43         | -2.58         | 13.061     | 19.734     |
| 2400          | 34.62       | -4.61        | -0.11         | -2.26         | 13.812     | 20.806     |
| 2410          | 33.84       | -4.71        | -0.15         | -2.3          | 13.58      | 20.255     |
| 2420          | 34.94       | -4.57        | 0.05          | -2.1          | 14.164     | 20.775     |
| 2430          | 33.78       | -4.71        | 0.03          | -2.12         | 13.704     | 20.072     |
| 2440          | 33.98       | -4.69        | 0.1           | -2.05         | 13.933     | 20.047     |
| 2450          | 35.11       | -4.55        | 0.22          | -1.93         | 14.681     | 20.428     |
| 2460          | 33.79       | -4.71        | 0.05          | -2.1          | 14.363     | 19.432     |
| 2470          | 33.17       | -4.79        | -0.1          | -2.25         | 14.301     | 18.864     |
| 2480          | 33.5        | -4.75        | -0.01         | -2.16         | 14.376     | 19.123     |
| 2490          | 32.49       | -4.88        | -0.14         | -2.29         | 13.976     | 18.513     |
| 2500          | 31.32       | -5.04        | -0.34         | -2.49         | 13.558     | 17.765     |

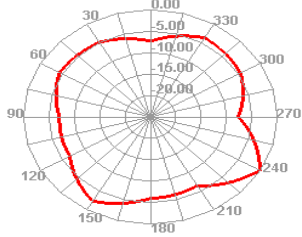
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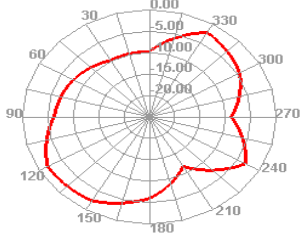
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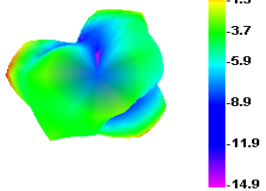
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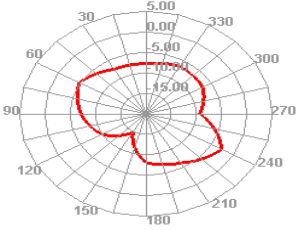
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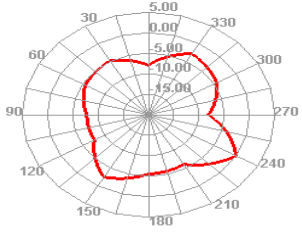
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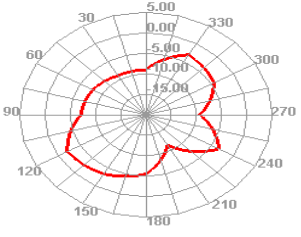
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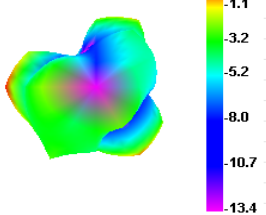
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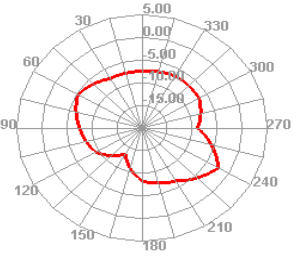
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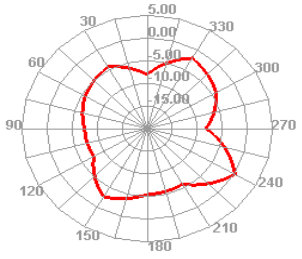
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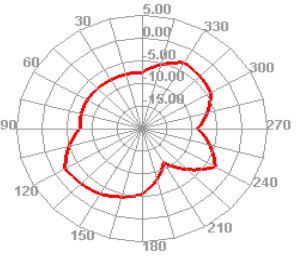
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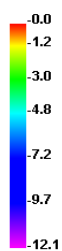
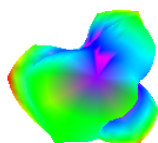
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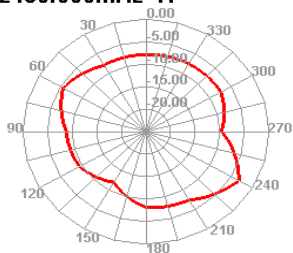
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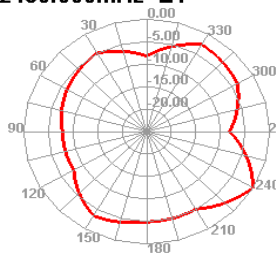
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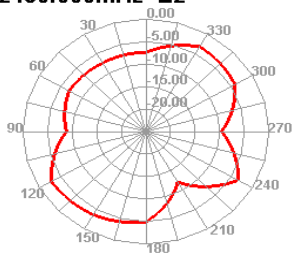
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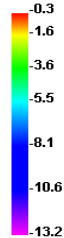
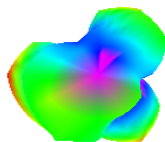
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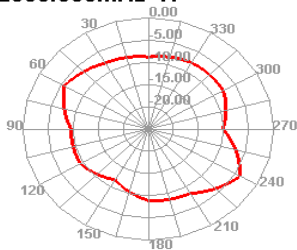
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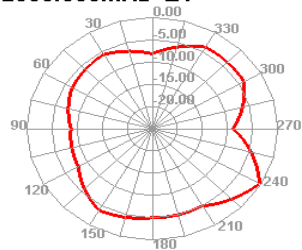
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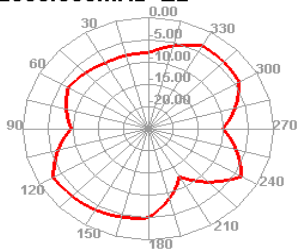
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



**深圳市勤新科技有限公司**  
**SHEN ZHEN SHI QIN XIN TECHNOLOGY CO., LTD**

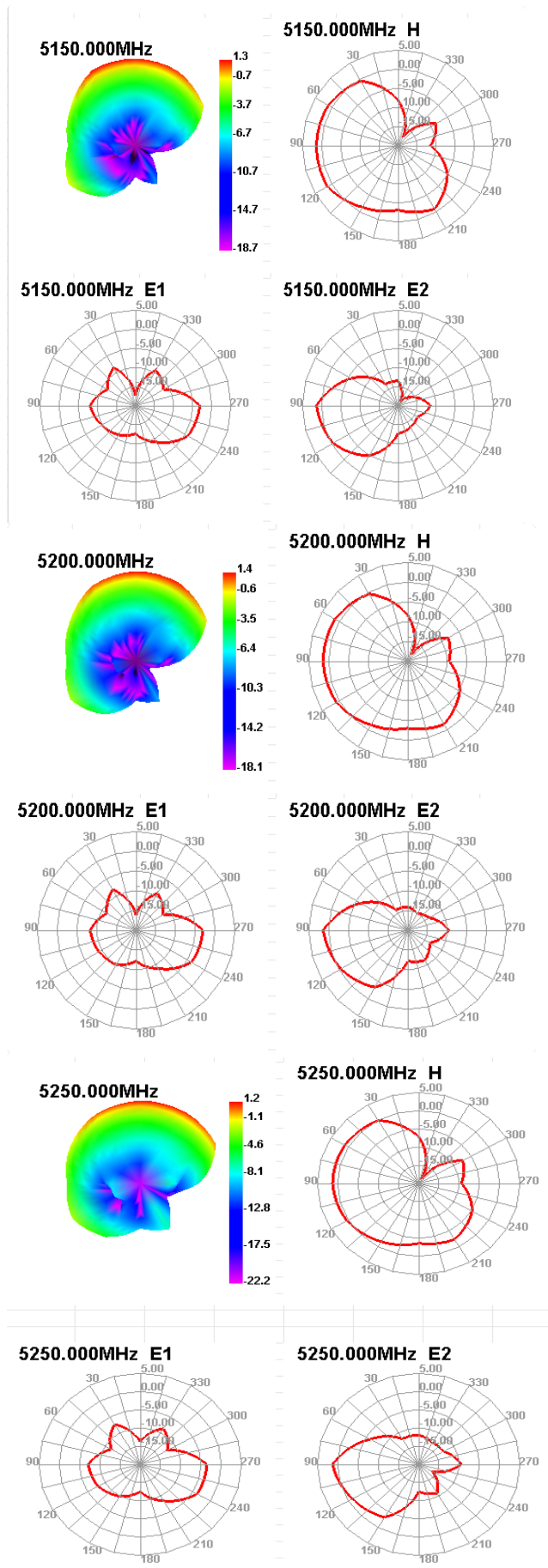
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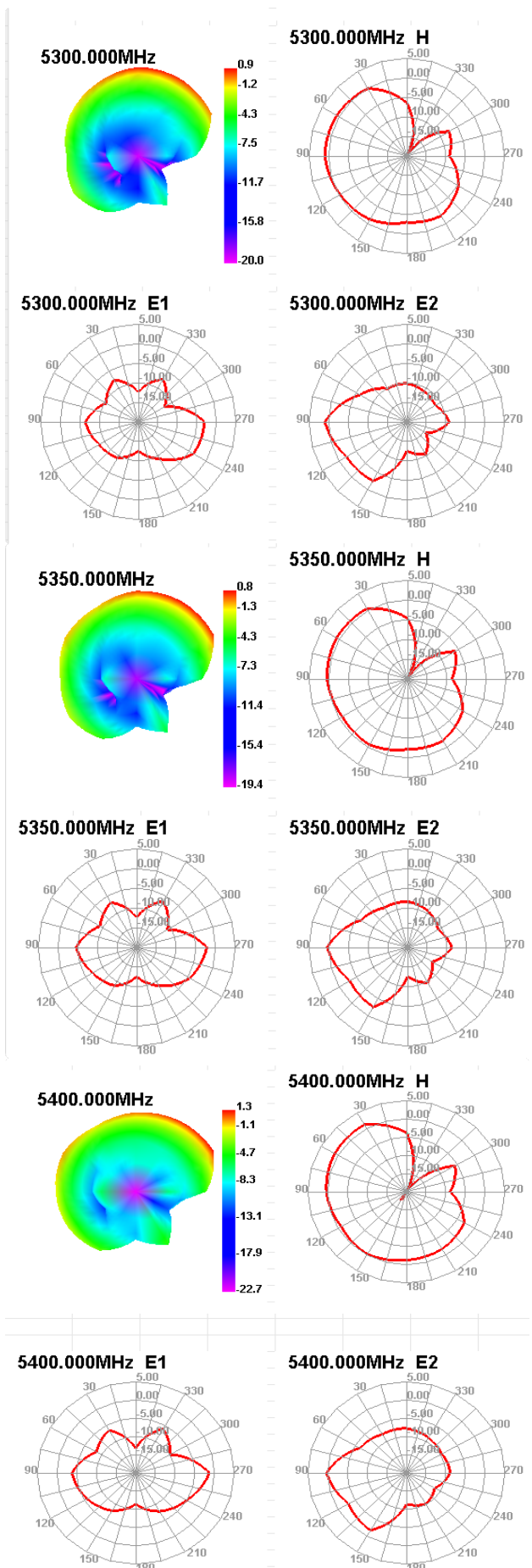
Passive Test For 5G Wi-Fi

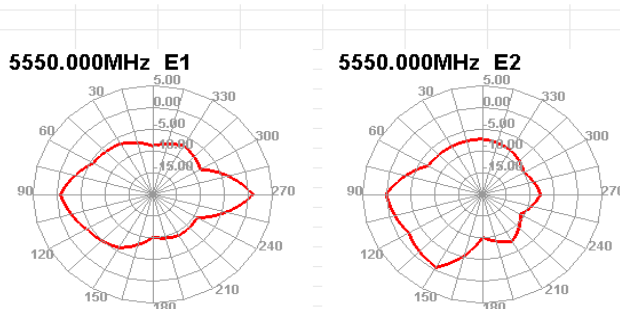
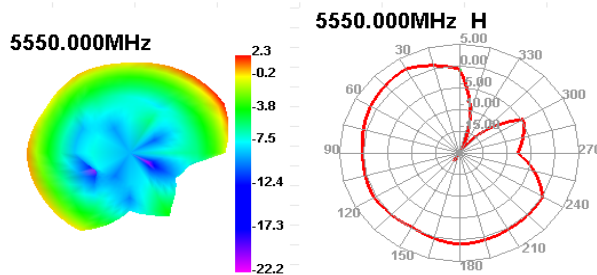
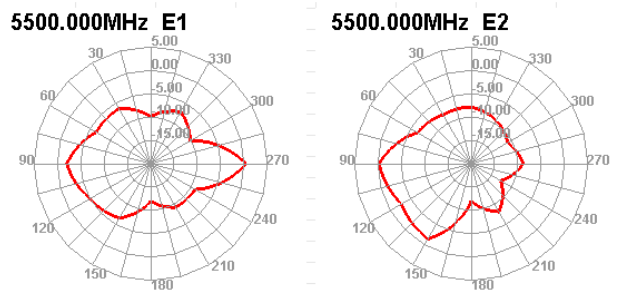
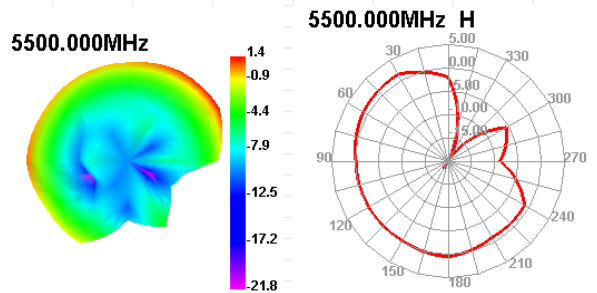
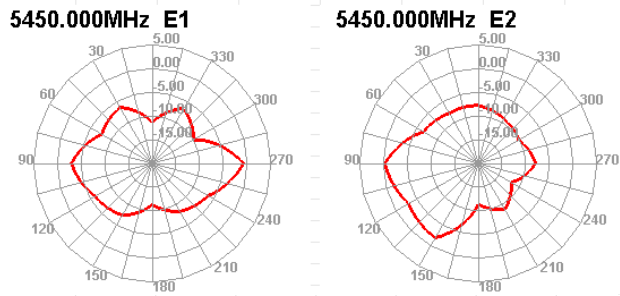
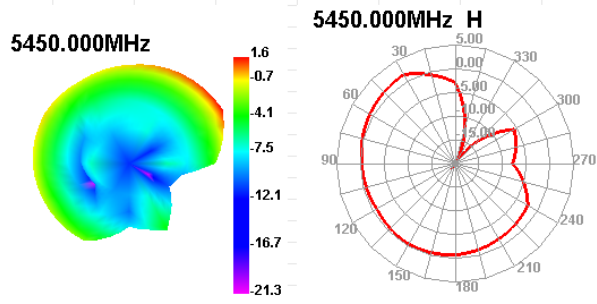
| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) |
|---------------|-------------|--------------|---------------|---------------|------------|------------|
| 5150          | 32.58       | -4.87        | 1.32          | -0.83         | 12.612     | 19.973     |
| 5160          | 29.13       | -5.36        | 0.81          | -1.34         | 11.217     | 17.915     |
| 5170          | 28.64       | -5.43        | 0.72          | -1.43         | 11.01      | 17.628     |
| 5180          | 26.17       | -5.82        | 0.37          | -1.78         | 10.192     | 15.977     |
| 5190          | 26.5        | -5.77        | 0.34          | -1.81         | 10.263     | 16.233     |
| 5200          | 32.81       | -4.84        | 1.37          | -0.78         | 12.482     | 20.33      |
| 5210          | 32.39       | -4.9         | 1.34          | -0.81         | 12.579     | 19.814     |
| 5220          | 31.98       | -4.95        | 1.41          | -0.74         | 12.506     | 19.471     |
| 5230          | 30.25       | -5.19        | 1.19          | -0.96         | 11.847     | 18.404     |
| 5240          | 28.79       | -5.41        | 0.84          | -1.31         | 11.251     | 17.543     |
| 5250          | 31.55       | -5.01        | 1.24          | -0.91         | 12.288     | 19.26      |
| 5260          | 32.71       | -4.85        | 1.35          | -0.8          | 12.803     | 19.905     |
| 5270          | 35.35       | -4.52        | 1.84          | -0.31         | 14.069     | 21.284     |
| 5280          | 31.15       | -5.07        | 0.95          | -1.2          | 12.541     | 18.609     |
| 5290          | 30.54       | -5.15        | 0.94          | -1.21         | 12.289     | 18.253     |
| 5300          | 30.15       | -5.21        | 0.94          | -1.21         | 12.174     | 17.973     |
| 5310          | 30.06       | -5.22        | 0.73          | -1.42         | 12.277     | 17.787     |
| 5320          | 36.84       | -4.34        | 1.44          | -0.71         | 15.227     | 21.618     |
| 5330          | 33.12       | -4.8         | 1.15          | -1            | 13.69      | 19.426     |
| 5340          | 31.63       | -5           | 0.79          | -1.36         | 13.152     | 18.477     |
| 5350          | 31.78       | -4.98        | 0.77          | -1.38         | 13.216     | 18.569     |
| 5360          | 29.47       | -5.31        | 0.67          | -1.48         | 12.392     | 17.082     |
| 5370          | 33.58       | -4.74        | 0.98          | -1.17         | 14.123     | 19.459     |
| 5380          | 32.84       | -4.84        | 1.11          | -1.04         | 13.871     | 18.97      |
| 5390          | 29.72       | -5.27        | 0.66          | -1.49         | 12.585     | 17.133     |
| 5400          | 35.05       | -4.55        | 1.26          | -0.89         | 14.619     | 20.431     |
| 5410          | 31.03       | -5.08        | 0.96          | -1.19         | 13.029     | 18.004     |
| 5420          | 34.99       | -4.56        | 1.84          | -0.31         | 14.667     | 20.328     |
| 5430          | 34.45       | -4.63        | 1.42          | -0.73         | 14.52      | 19.926     |
| 5440          | 35.09       | -4.55        | 1.64          | -0.51         | 14.873     | 20.22      |
| 5450          | 35.47       | -4.5         | 1.64          | -0.51         | 14.967     | 20.501     |
| 5460          | 33.1        | -4.8         | 0.92          | -1.23         | 13.985     | 19.113     |
| 5470          | 35.79       | -4.46        | 1.45          | -0.7          | 15.142     | 20.647     |
| 5480          | 35.78       | -4.46        | 1.54          | -0.61         | 15.067     | 20.716     |
| 5490          | 38.4        | -4.16        | 1.75          | -0.4          | 16.076     | 22.323     |
| 5500          | 37.76       | -4.23        | 1.43          | -0.72         | 15.777     | 21.98      |
| 5510          | 36.61       | -4.36        | 1.66          | -0.49         | 15.238     | 21.367     |
| 5520          | 39.58       | -4.02        | 2.01          | -0.14         | 16.49      | 23.095     |
| 5530          | 39.19       | -4.07        | 1.9           | -0.25         | 16.487     | 22.704     |
| 5540          | 42.52       | -3.71        | 2.07          | -0.08         | 17.905     | 24.619     |

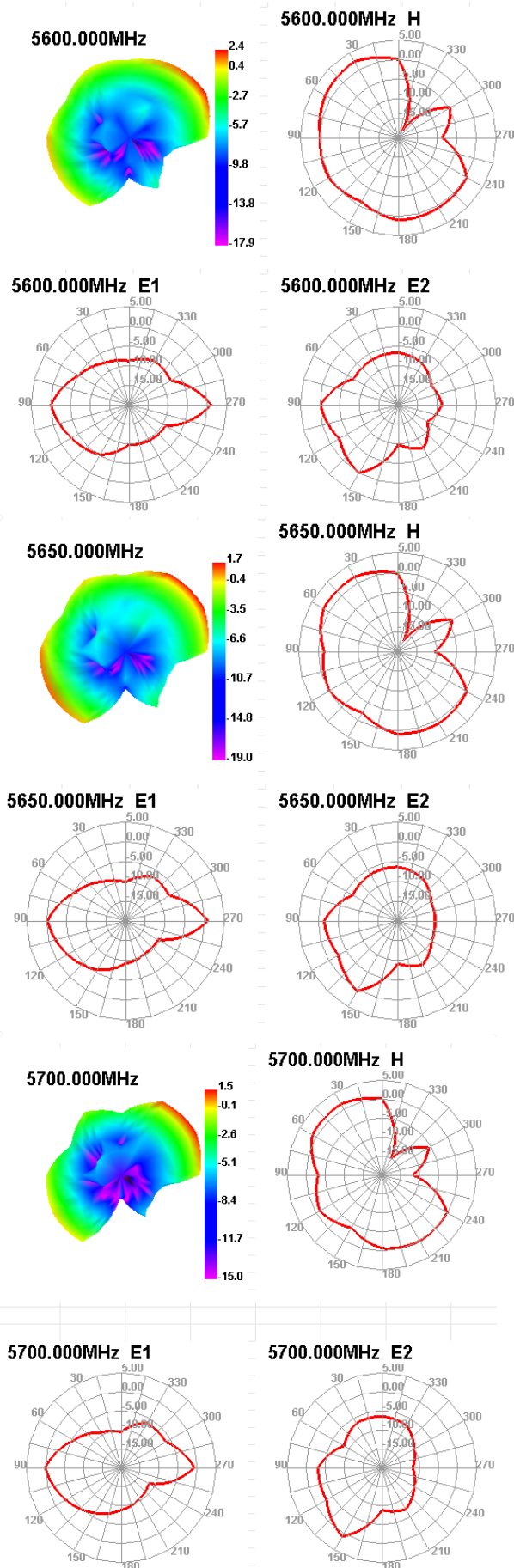
**深圳市勤新科技有限公司**  
**SHEN ZHEN SHI QIN XIN TECHNOLOGY CO., LTD**

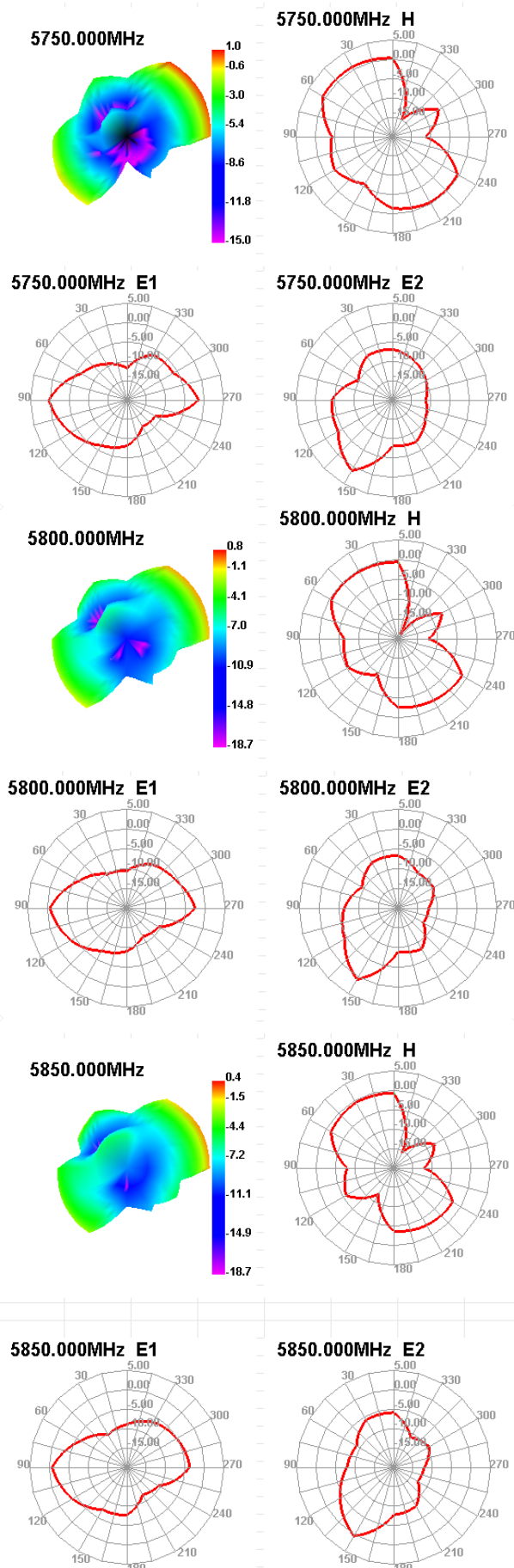
|      |       |       |      |       |        |        |
|------|-------|-------|------|-------|--------|--------|
| 5550 | 43.46 | -3.62 | 2.28 | 0.13  | 18.426 | 25.036 |
| 5560 | 41.41 | -3.83 | 2.07 | -0.08 | 17.51  | 23.895 |
| 5570 | 43.16 | -3.65 | 2.27 | 0.12  | 18.253 | 24.907 |
| 5580 | 40.67 | -3.91 | 1.7  | -0.45 | 17.261 | 23.405 |
| 5590 | 42.47 | -3.72 | 2.1  | -0.05 | 17.96  | 24.506 |
| 5600 | 43.33 | -3.63 | 2.4  | 0.25  | 18.462 | 24.866 |
| 5610 | 40.66 | -3.91 | 1.36 | -0.79 | 17.283 | 23.372 |
| 5620 | 42.75 | -3.69 | 1.73 | -0.42 | 18.254 | 24.5   |
| 5630 | 40.92 | -3.88 | 1.89 | -0.26 | 17.479 | 23.445 |
| 5640 | 39.89 | -3.99 | 1.48 | -0.67 | 17.004 | 22.888 |
| 5650 | 41.15 | -3.86 | 1.72 | -0.43 | 17.749 | 23.398 |
| 5660 | 39.48 | -4.04 | 1.55 | -0.6  | 17.041 | 22.439 |
| 5670 | 39.66 | -4.02 | 1.7  | -0.45 | 17.142 | 22.517 |
| 5680 | 37.83 | -4.22 | 1.31 | -0.84 | 16.334 | 21.492 |
| 5690 | 36.7  | -4.35 | 1.12 | -1.03 | 15.842 | 20.857 |
| 5700 | 36.61 | -4.36 | 1.5  | -0.65 | 15.826 | 20.783 |
| 5710 | 36.17 | -4.42 | 1.3  | -0.85 | 15.513 | 20.659 |
| 5720 | 36.49 | -4.38 | 1.37 | -0.78 | 15.707 | 20.783 |
| 5730 | 35.72 | -4.47 | 1.32 | -0.83 | 15.216 | 20.501 |
| 5740 | 34.11 | -4.67 | 1.29 | -0.86 | 14.444 | 19.67  |
| 5750 | 33.2  | -4.79 | 1.04 | -1.11 | 14.447 | 18.749 |
| 5760 | 33.1  | -4.8  | 1.36 | -0.79 | 14.304 | 18.797 |
| 5770 | 32.89 | -4.83 | 1.12 | -1.03 | 14.103 | 18.783 |
| 5780 | 31.13 | -5.07 | 1.14 | -1.01 | 13.424 | 17.71  |
| 5790 | 29.34 | -5.33 | 1.15 | -1    | 12.776 | 16.562 |
| 5800 | 27.48 | -5.61 | 0.81 | -1.34 | 11.885 | 15.594 |
| 5810 | 29.14 | -5.36 | 1.06 | -1.09 | 12.764 | 16.372 |
| 5820 | 29.7  | -5.27 | 1.48 | -0.67 | 12.747 | 16.957 |
| 5830 | 29.96 | -5.23 | 1.17 | -0.98 | 13.334 | 16.628 |
| 5840 | 28.06 | -5.52 | 1.24 | -0.91 | 12.394 | 15.666 |
| 5850 | 26.09 | -5.84 | 0.41 | -1.74 | 11.521 | 14.567 |



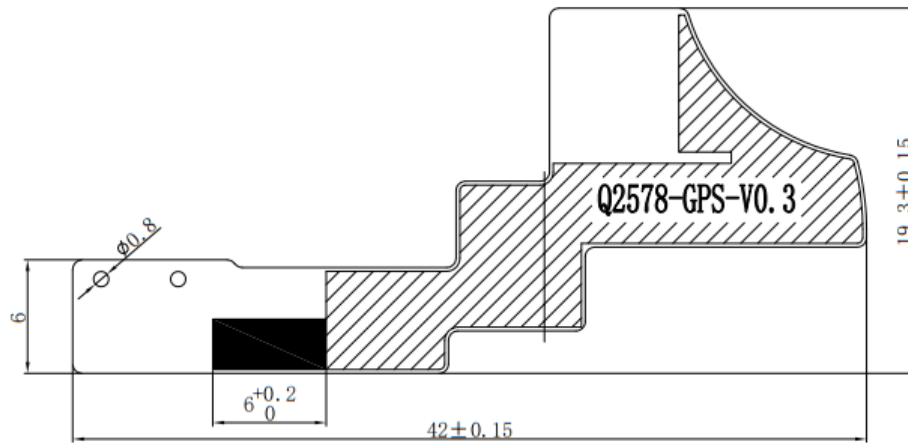








GPS Antenna



※ Antenna

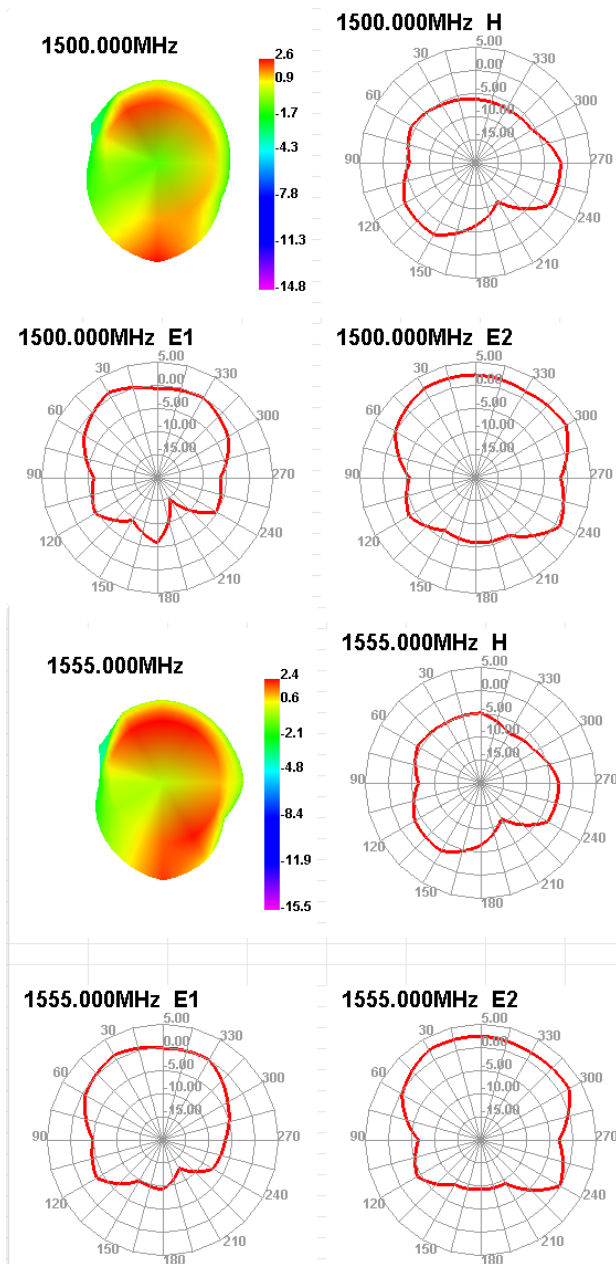


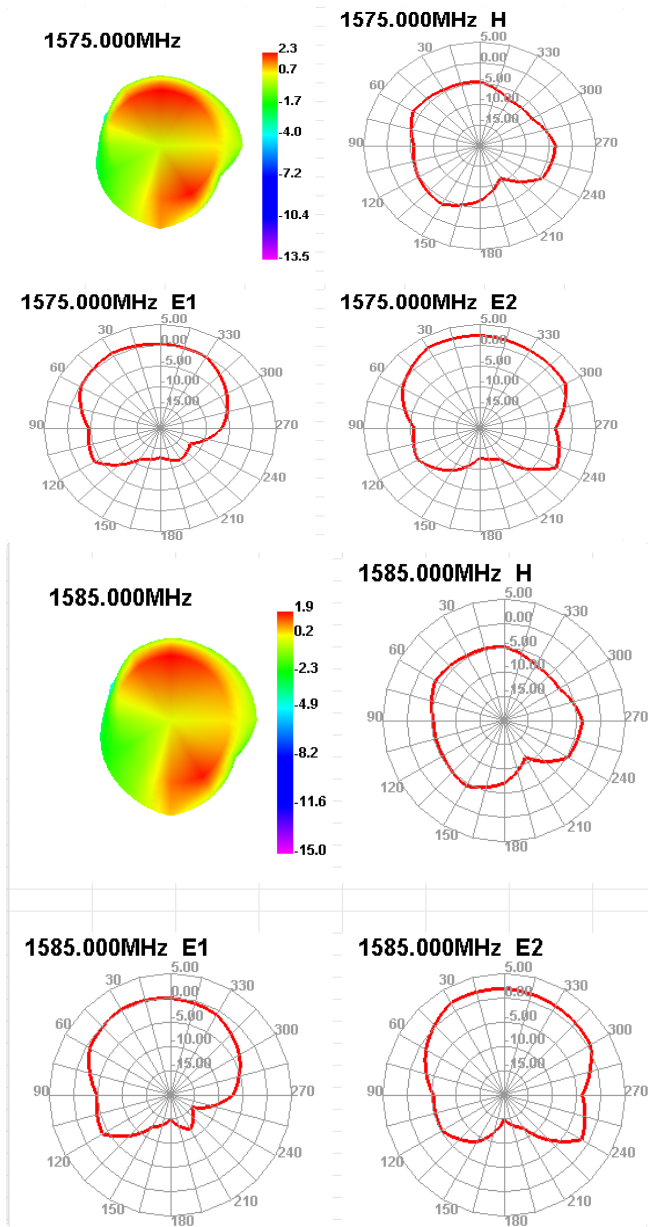
※ VSWR



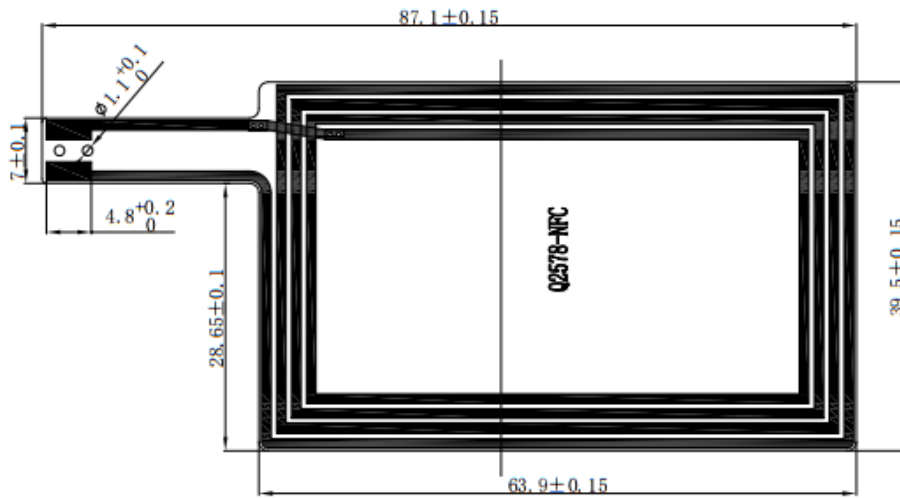
Passive Test For 1575MHz

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) |
|------------|----------|-----------|------------|------------|---------|---------|
| 1500       | 64.53    | -1.9      | 2.63       | 0.48       | 43.514  | 21.014  |
| 1505       | 62.41    | -2.05     | 2.41       | 0.26       | 42.215  | 20.196  |
| 1510       | 61.03    | -2.14     | 2.31       | 0.16       | 41.673  | 19.357  |
| 1515       | 60.85    | -2.16     | 2.3        | 0.15       | 41.879  | 18.973  |
| 1520       | 61.16    | -2.14     | 2.3        | 0.15       | 42.369  | 18.79   |
| 1525       | 59.75    | -2.24     | 2.24       | 0.09       | 41.735  | 18.016  |
| 1530       | 60.9     | -2.15     | 2.29       | 0.14       | 42.831  | 18.071  |
| 1535       | 59.35    | -2.27     | 2.18       | 0.03       | 41.995  | 17.352  |
| 1540       | 57.36    | -2.41     | 2.1        | -0.05      | 40.746  | 16.61   |
| 1545       | 58.99    | -2.29     | 2.31       | 0.16       | 42.073  | 16.913  |
| 1550       | 60.28    | -2.2      | 2.51       | 0.36       | 43.272  | 17.009  |
| 1555       | 57.31    | -2.42     | 2.36       | 0.21       | 41.516  | 15.794  |
| 1560       | 56.18    | -2.5      | 2.37       | 0.22       | 40.982  | 15.198  |
| 1565       | 54.87    | -2.61     | 2.34       | 0.19       | 40.303  | 14.565  |
| 1570       | 52.21    | -2.82     | 2.18       | 0.03       | 38.63   | 13.582  |
| 1575       | 52.36    | -2.81     | 2.28       | 0.13       | 38.958  | 13.405  |
| 1580       | 51.12    | -2.91     | 2.22       | 0.07       | 38.152  | 12.967  |
| 1585       | 46.68    | -3.31     | 1.86       | -0.29      | 34.827  | 11.852  |
| 1590       | 47.16    | -3.26     | 1.96       | -0.19      | 35.119  | 12.041  |
| 1595       | 49.94    | -3.02     | 2.26       | 0.11       | 37.11   | 12.833  |
| 1600       | 48.78    | -3.12     | 2.19       | 0.04       | 36.125  | 12.659  |

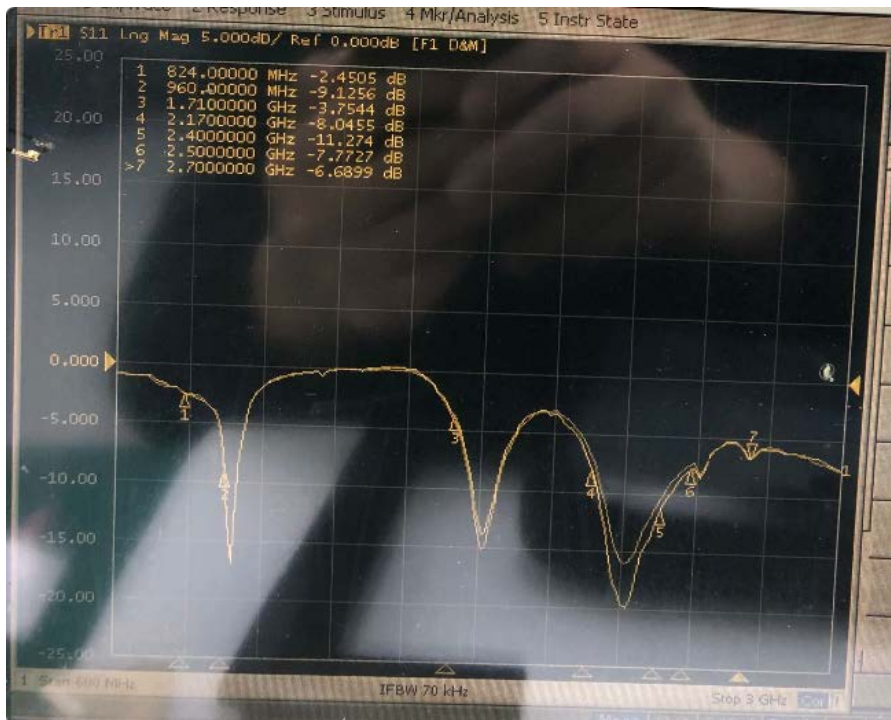




NFC Antenna



※ Antenna



※ VSWR



Dimensions

|                 |           |             |            |            |
|-----------------|-----------|-------------|------------|------------|
| CUSTOMER' S P/N |           |             | DRAWING NO | Q2578      |
| PREPARED BY     | CHECKEDBY | APPROVAL BY | S.R.NO     |            |
|                 |           |             | DATE:      | 2025-02-17 |