

# Antenna SPEC

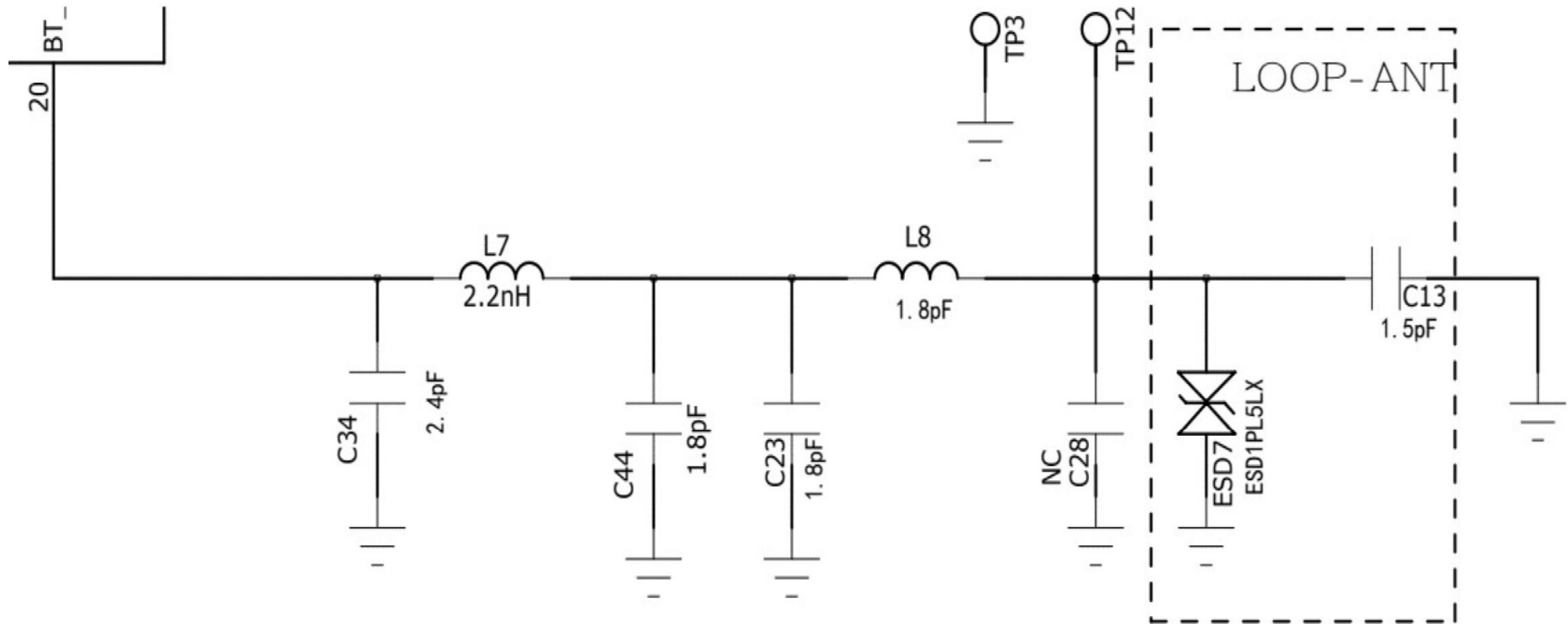
|              |          |
|--------------|----------|
| Customer     | REALME   |
| Project name | KEEP-S   |
| Model IC     | BT8931H  |
| Model Ant.   | LOOP Ant |

**Manufacturer:** SHENZHEN BOOMTECH INDUSTRIAL SHARES CO., LTD

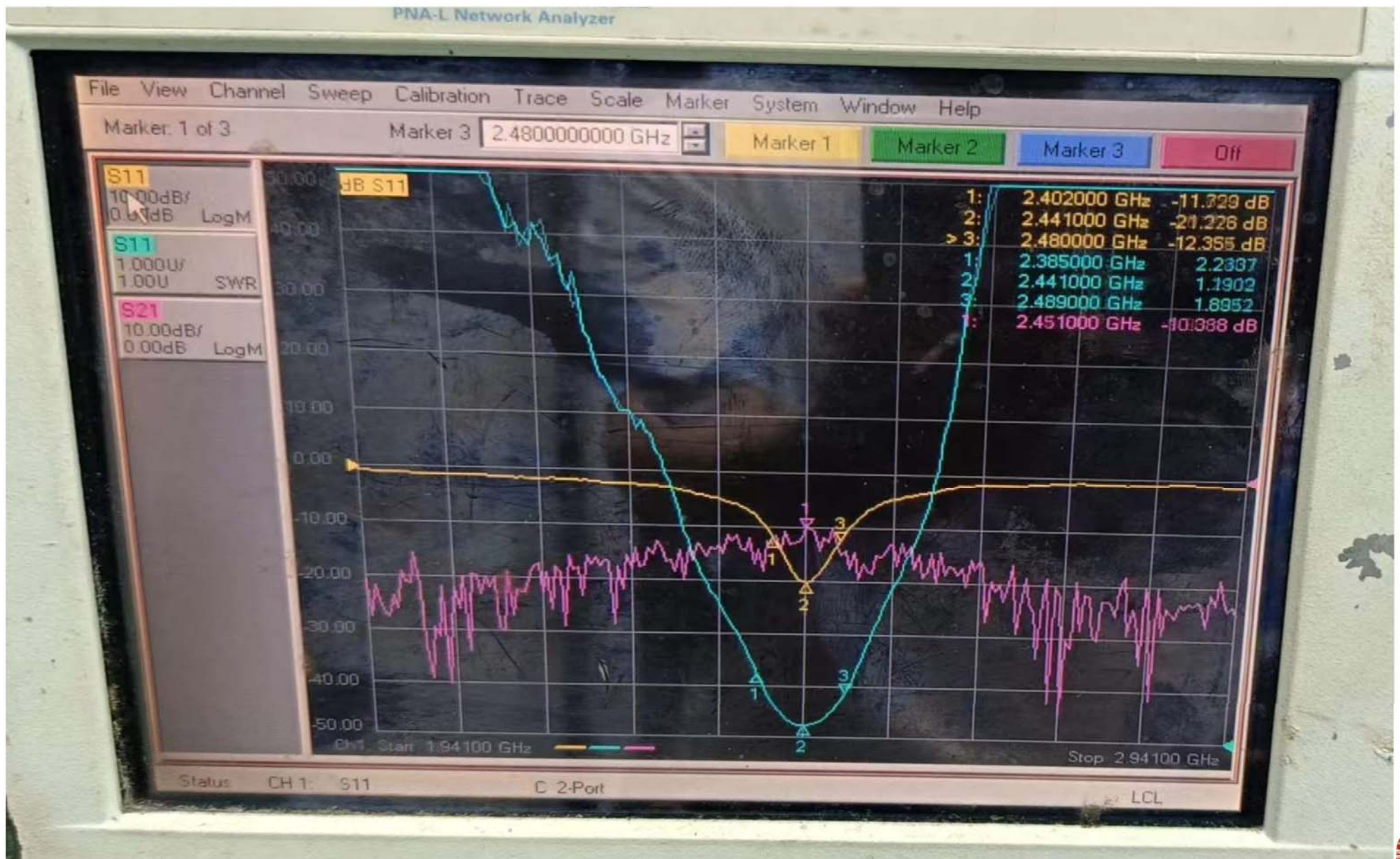
**Address:** 906, 9th Floor, Block A, Huizhi R&D Center, Baoan District, Shenzhen

2024/08/22

# Antenna Matching



# S11 Parameter



# Gain & Efficiency

| 天线效率       |            |            |
|------------|------------|------------|
| Freq (MHz) | Efficiency | Gain (dBi) |
| 2400       | 27.13      | 0.19       |
| 2401       | 27.22      | 0.20       |
| 2402       | 27.29      | 0.22       |
| 2403       | 27.36      | 0.23       |
| 2404       | 27.40      | 0.24       |
| 2405       | 27.44      | 0.24       |
| 2406       | 27.49      | 0.24       |
| 2407       | 27.53      | 0.25       |
| 2408       | 27.55      | 0.24       |
| 2409       | 27.54      | 0.23       |
| 2410       | 27.53      | 0.22       |
| 2411       | 27.52      | 0.21       |
| 2412       | 27.49      | 0.19       |
| 2413       | 27.44      | 0.17       |
| 2414       | 27.37      | 0.15       |
| 2415       | 27.28      | 0.12       |
| 2416       | 27.20      | 0.10       |
| 2417       | 27.12      | 0.07       |
| 2418       | 27.00      | 0.04       |
| 2419       | 26.90      | 0.02       |
| 2420       | 26.80      | -0.01      |
| 2421       | 26.66      | -0.04      |
| 2422       | 26.52      | -0.07      |
| 2423       | 26.42      | -0.09      |
| 2424       | 26.31      | -0.12      |

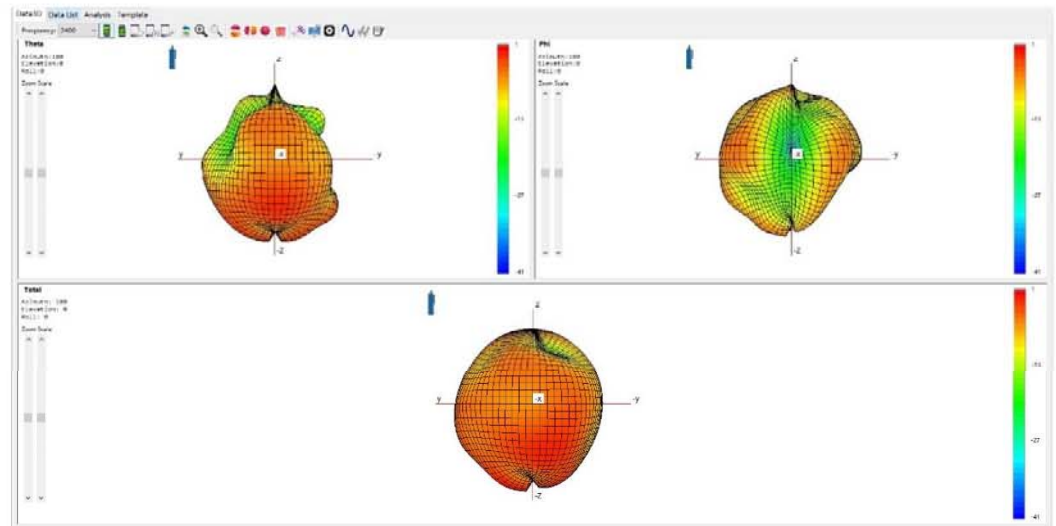
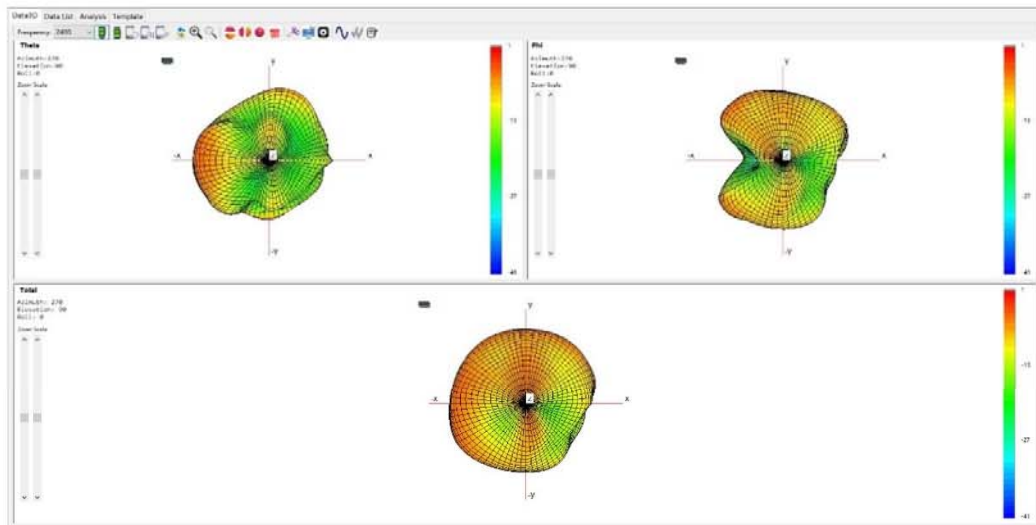
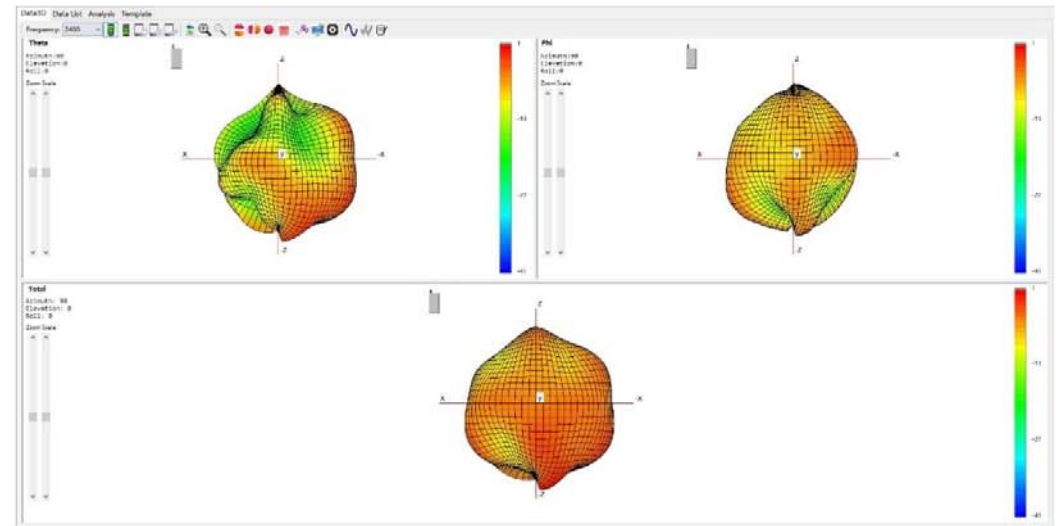
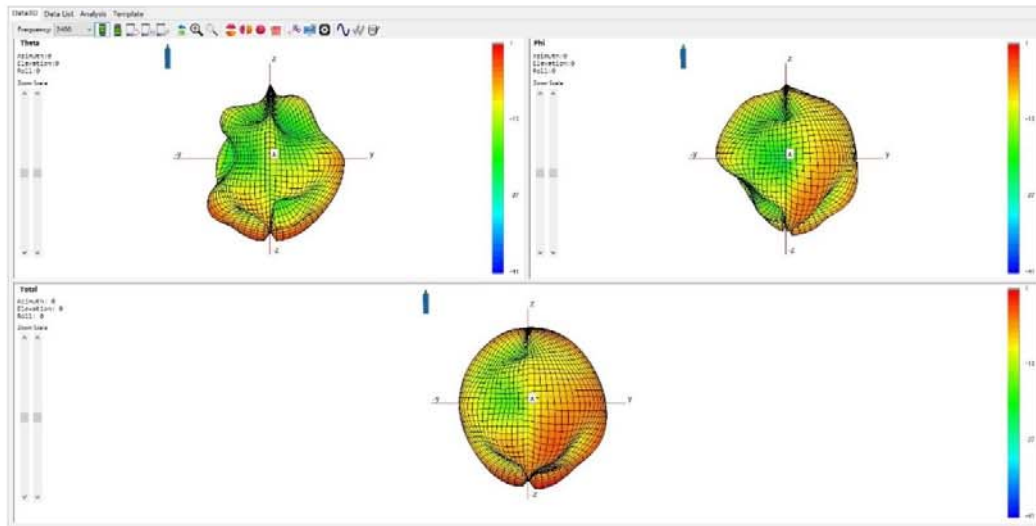
|      |       |       |
|------|-------|-------|
| 2425 | 26.22 | -0.15 |
| 2426 | 26.10 | -0.17 |
| 2427 | 26.04 | -0.19 |
| 2428 | 26.02 | -0.20 |
| 2429 | 26.01 | -0.21 |
| 2430 | 26.05 | -0.22 |
| 2431 | 26.03 | -0.23 |
| 2432 | 26.01 | -0.25 |
| 2433 | 26.00 | -0.26 |
| 2434 | 25.98 | -0.27 |
| 2435 | 25.96 | -0.29 |
| 2436 | 25.87 | -0.32 |
| 2437 | 25.78 | -0.34 |
| 2438 | 25.67 | -0.37 |
| 2439 | 25.54 | -0.40 |
| 2440 | 25.40 | -0.44 |
| 2441 | 25.26 | -0.47 |
| 2442 | 25.10 | -0.51 |
| 2443 | 24.93 | -0.56 |
| 2444 | 24.75 | -0.60 |
| 2445 | 24.54 | -0.64 |
| 2446 | 24.37 | -0.68 |
| 2447 | 24.20 | -0.73 |
| 2448 | 24.02 | -0.77 |
| 2449 | 23.84 | -0.81 |
| 2450 | 23.65 | -0.85 |

|      |       |       |
|------|-------|-------|
| 2451 | 23.48 | -0.89 |
| 2452 | 23.33 | -0.92 |
| 2453 | 23.18 | -0.96 |
| 2454 | 23.01 | -0.99 |
| 2455 | 22.84 | -1.04 |
| 2456 | 22.68 | -1.07 |
| 2457 | 22.50 | -1.11 |
| 2458 | 22.32 | -1.14 |
| 2459 | 22.13 | -1.19 |
| 2460 | 21.94 | -1.24 |
| 2461 | 21.76 | -1.28 |
| 2462 | 21.59 | -1.32 |
| 2463 | 21.41 | -1.37 |
| 2464 | 21.22 | -1.42 |
| 2465 | 21.03 | -1.47 |
| 2466 | 20.85 | -1.52 |
| 2467 | 20.69 | -1.58 |
| 2468 | 20.51 | -1.63 |
| 2469 | 20.31 | -1.66 |
| 2470 | 20.11 | -1.69 |
| 2471 | 19.90 | -1.73 |
| 2472 | 19.72 | -1.75 |
| 2473 | 19.55 | -1.78 |
| 2474 | 19.37 | -1.81 |
| 2475 | 19.22 | -1.83 |

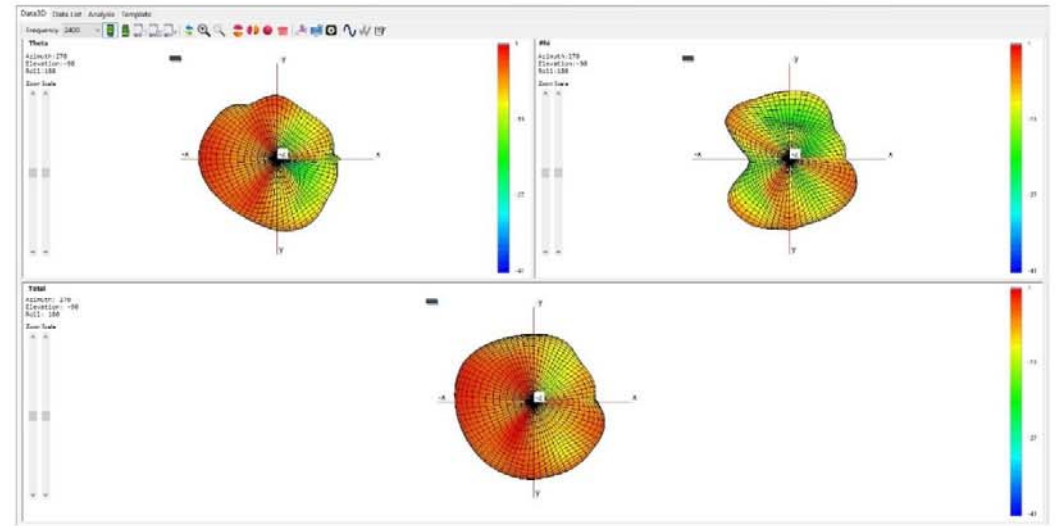
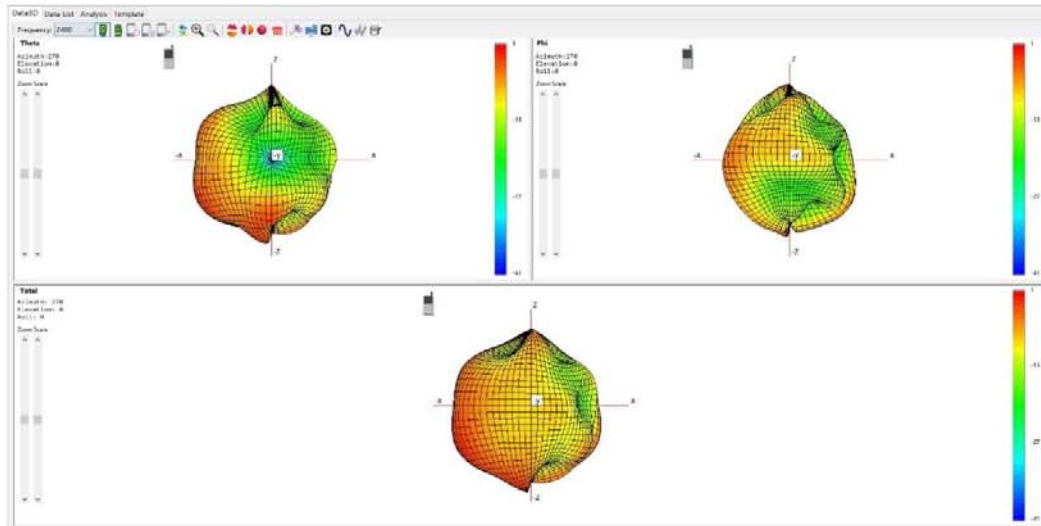
|      |      |       |       |      |
|------|------|-------|-------|------|
|      | 2475 | 19.22 | -1.83 |      |
|      | 2476 | 19.07 | -1.86 |      |
|      | 2477 | 18.90 | -1.89 |      |
|      | 2478 | 18.74 | -1.92 |      |
|      | 2479 | 18.59 | -1.96 |      |
|      | 2480 | 18.45 | -1.99 |      |
|      | 2481 | 18.33 | -2.03 |      |
|      | 2482 | 18.22 | -2.06 |      |
|      | 2483 | 18.12 | -2.09 |      |
|      | 2484 | 18.02 | -2.13 |      |
|      | 2485 | 17.92 | -2.17 |      |
|      | 2486 | 17.83 | -2.21 |      |
|      | 2487 | 17.75 | -2.24 |      |
|      | 2488 | 17.67 | -2.26 |      |
|      | 2489 | 17.59 | -2.30 |      |
|      | 2490 | 17.49 | -2.33 |      |
|      | 2491 | 17.40 | -2.36 |      |
|      | 2492 | 17.31 | -2.39 |      |
|      | 2493 | 17.22 | -2.42 |      |
|      | 2494 | 17.12 | -2.45 |      |
|      | 2495 | 17.02 | -2.48 |      |
|      | 2496 | 16.87 | -2.52 |      |
|      | 2497 | 16.72 | -2.57 |      |
|      | 2498 | 16.57 | -2.61 |      |
|      | 2499 | 16.44 | -2.65 |      |
|      | 2500 | 16.31 | -2.69 |      |
| 最大效率 | 2408 | 27.55 | 0.25  | 最大增益 |



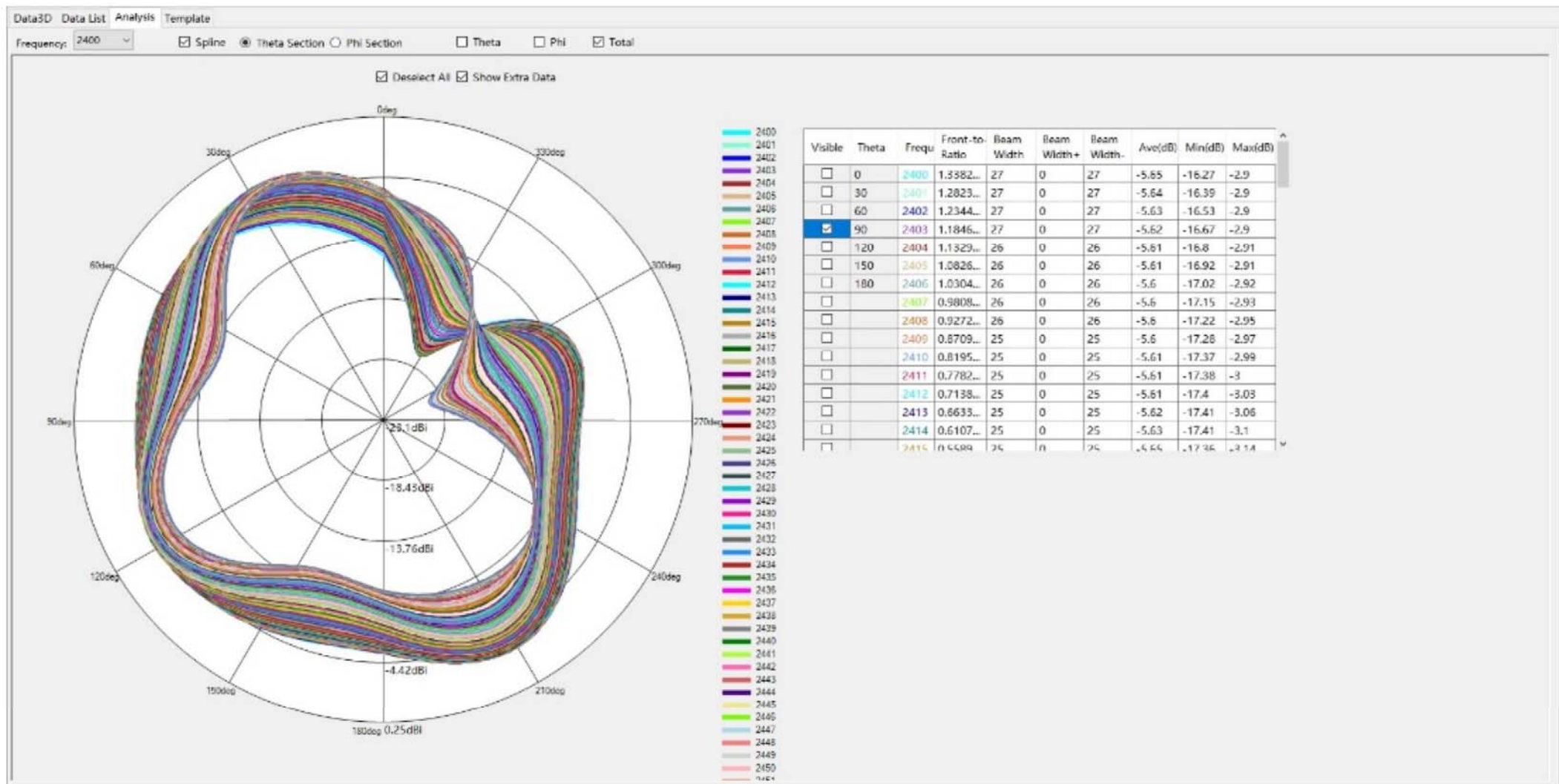
# 3D辐射图 (3D radiation chart)



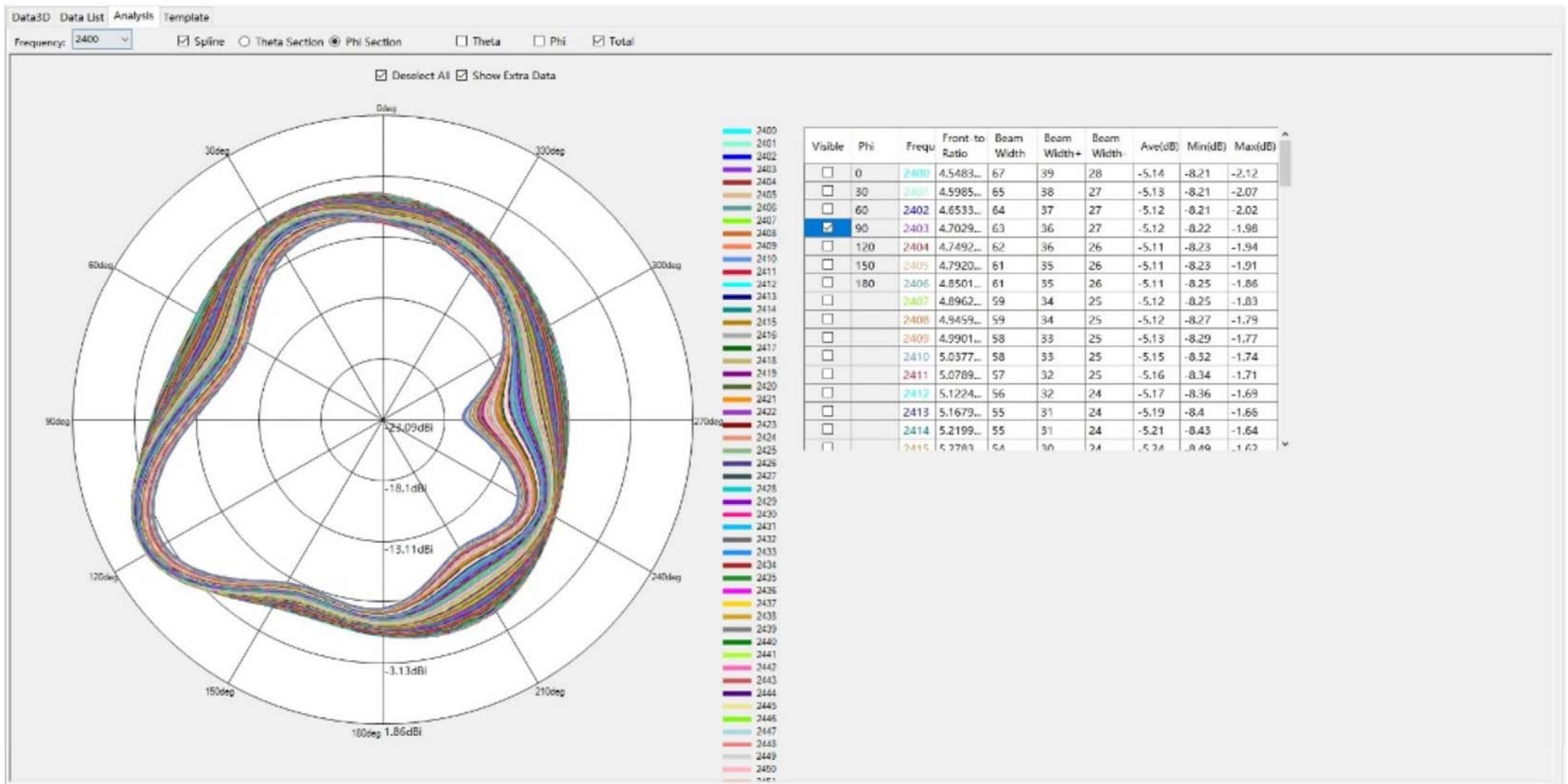
# 3D辐射图 (3D radiation chart)



# 2D辐射图 (2D radiation chart)



# 2D辐射图 (2D radiation chart)





# TRP & TIS\_OTA

| 1# | keeps_EVT1_头模 |        |        |        |
|----|---------------|--------|--------|--------|
|    | 信道            | 0      | 39     | 78     |
|    | TRP           | 4.14   | 5.78   | 5.33   |
|    | TIS           | -88.53 | -88.56 | -88.14 |

| 3# | keeps_EVT1_头模 |        |        |        |
|----|---------------|--------|--------|--------|
|    | 信道            | 0      | 39     | 78     |
|    | TRP           | 4.98   | 5.41   | 3.73   |
|    | TIS           | -87.96 | -87.51 | -86.79 |

| 4# | keeps_EVT1_头模 |       |        |        |
|----|---------------|-------|--------|--------|
|    | 信道            | 0     | 39     | 78     |
|    | TRP           | 3.91  | 5.45   | 5.31   |
|    | TIS           | -87.9 | -88.17 | -87.99 |

| 1# | keeps_EVT1_自由场 |        |        |        |
|----|----------------|--------|--------|--------|
|    | 信道             | 0      | 39     | 78     |
|    | TRP            | 5.88   | 6.6    | 4.95   |
|    | TIS            | -89.13 | -88.99 | -87.96 |

| 3# | keeps_EVT1_自由场 |        |        |       |
|----|----------------|--------|--------|-------|
|    | 信道             | 0      | 39     | 78    |
|    | TRP            | 6.66   | 6.05   | 3.33  |
|    | TIS            | -88.82 | -88.05 | -86.7 |

| 4# | keeps_EVT1_自由场 |        |        |        |
|----|----------------|--------|--------|--------|
|    | 信道             | 0      | 39     | 78     |
|    | TRP            | 5      | 5.87   | 4.54   |
|    | TIS            | -87.78 | -88.08 | -87.68 |