

Razer T1 antenna test report-Satellite

By : GGEC

Date: Jun. 24th, 2022



SINCE 1951



01

Razer T1 antenna test report

Antenna test report

1. Chamber coordinate system
2. Antenna location
3. Active test data
4. Passive test data
5. Conclusion



Razer T1 antenna test report

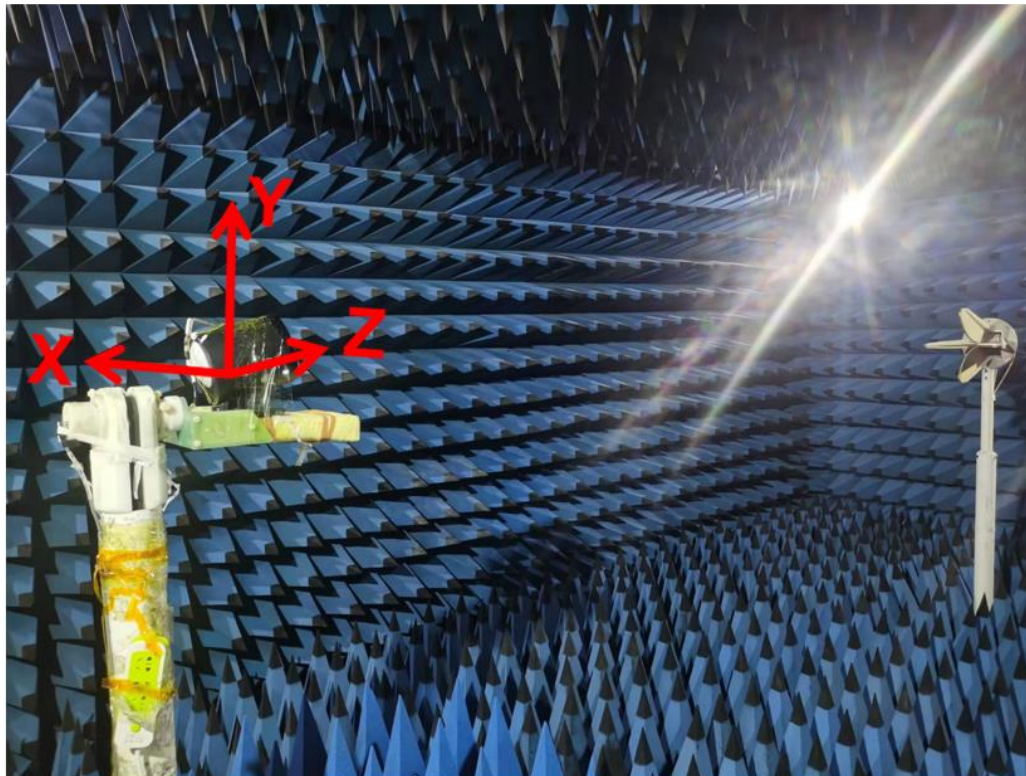
1. Revised History

| Version NO. | Revised Date | Revised by | Description | Notes |
|-------------|--------------|------------|---------------------------------------------------------------|-------|
| V1.0 | 2022-06-24 | | test report based on the T1 satellite Preproduction prototype | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



Razer T1 antenna test report

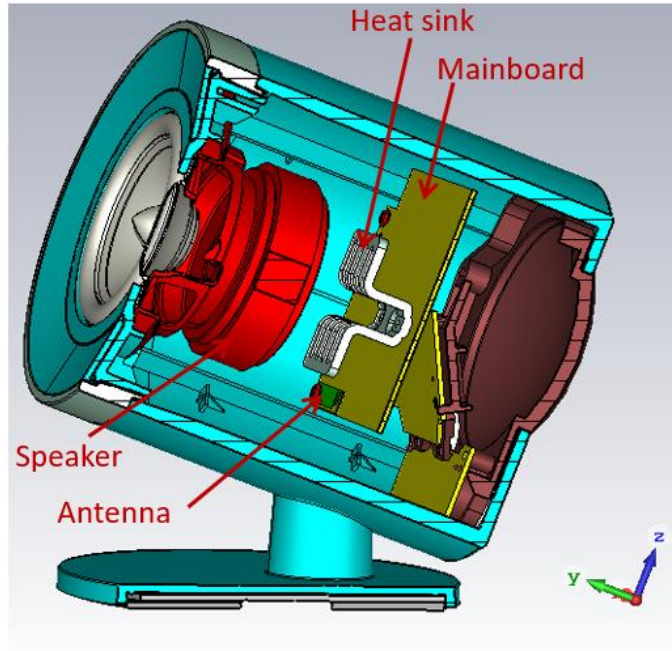
2. Chamber coordination system



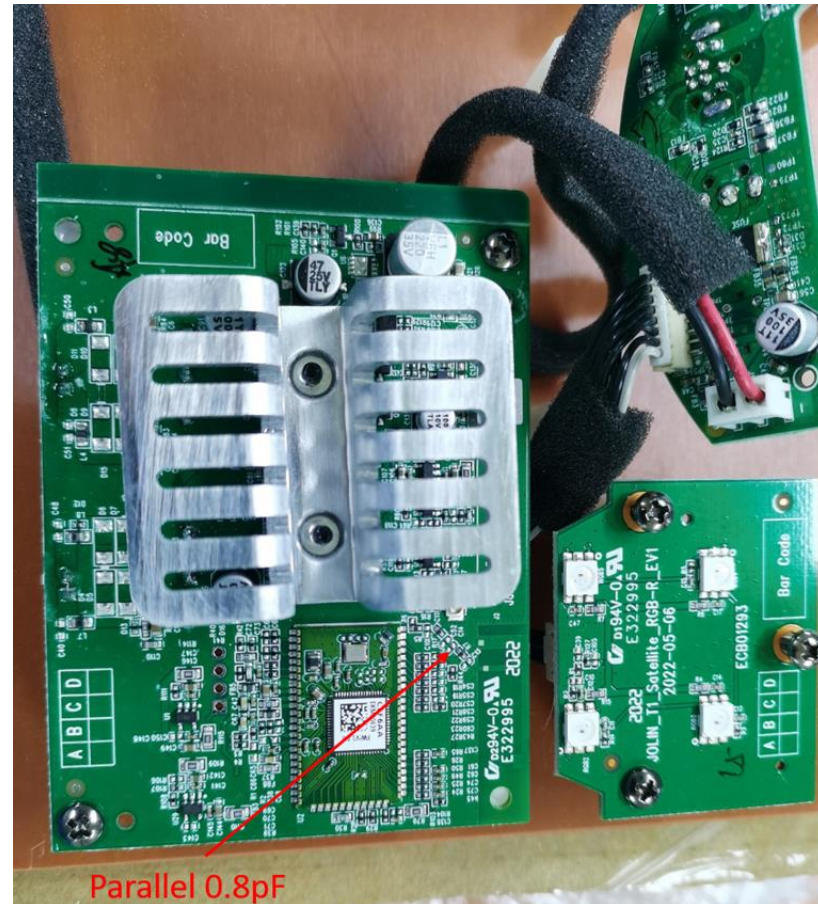
H:XY
E1:XZ
E2:YZ

Razer T1 antenna test report

3. Antenna location



Satellite box



Parallel 0.8pF



Razer T1 antenna test report

4. Active test data

综合测试仪: CMW500

| Test Item | BT | | |
|-----------------|--------|--------|--------|
| | 0 | 39 | 78 |
| Frequency (MHz) | 2402 | 2441 | 2480 |
| TRP (dBm) | 4.86 | 4.83 | 4.35 |
| TIS (dBm) | -91.52 | -90.49 | -91.18 |

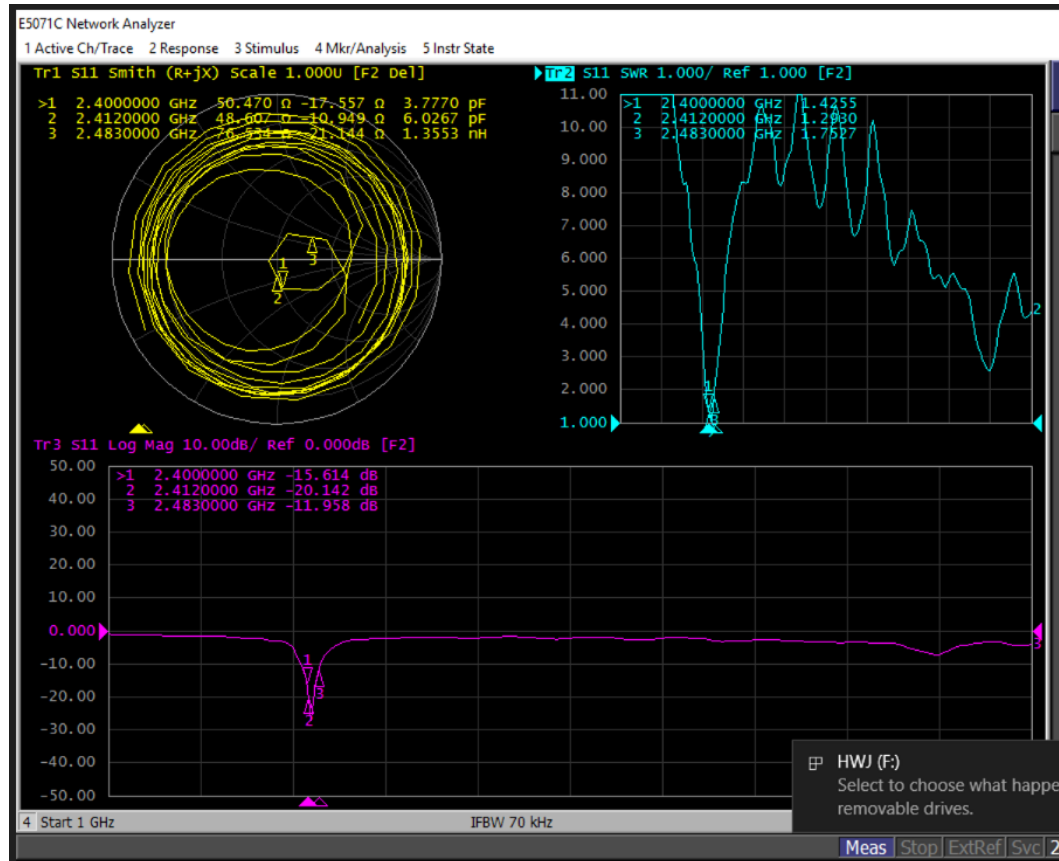


T1_Satellite_RF
test plan_2022062



Razer T1 antenna test report

5. Passive test data (S11)





Razer T1 antenna test report

5. Passive test data (Efficiency & Peak gain)

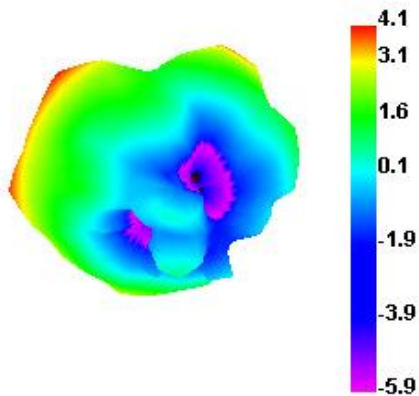
| Passive Test For BT | | |
|---------------------|-------------|---------------|
| Freq (MHz) | Effi (%) | Gain (dBi) |
| 2400 | 55.31 | 4.1 |
| 2410 | 53.39 | 4.05 |
| 2420 | 54.25 | 4.21 |
| 2430 | 55.69 | 4.37 |
| 2440 | 56.01 | 4.47 |
| 2450 | 57.93 | 4.64 |
| 2460 | 58.05 | 4.68 |
| 2470 | 56.74 | 4.57 |
| 2480 | 52.51 | 4.18 |
| 2490 | 52.16 | 3.88 |
| 2500 | 56.86 | 3.85 |



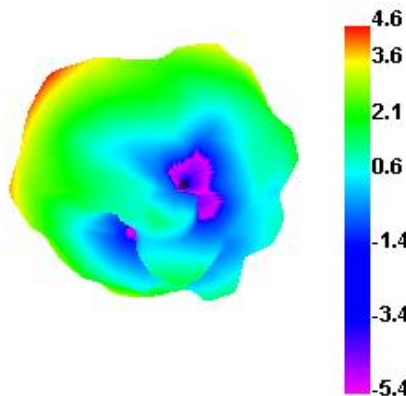
Razer T1 antenna test report

5. Passive test data (radiation pattern)

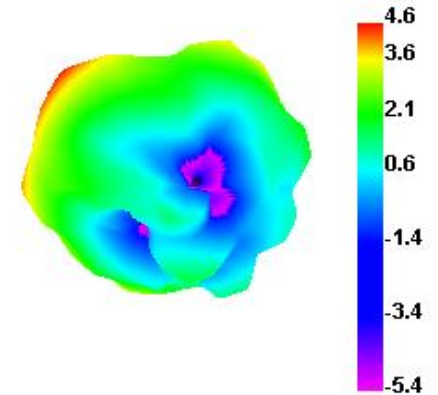
2400.000MHz



2450.000MHz



2450.000MHz



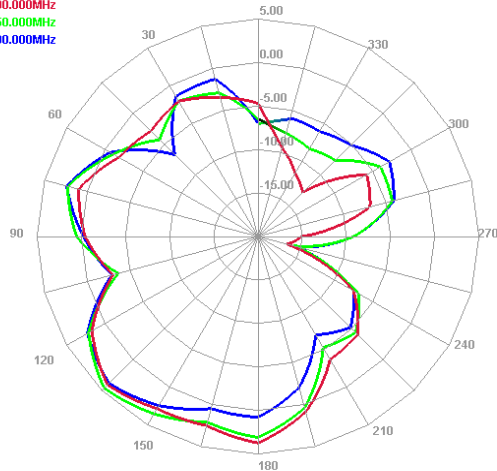


Razer T1 antenna test report

5. Passive test data (radiation pattern)

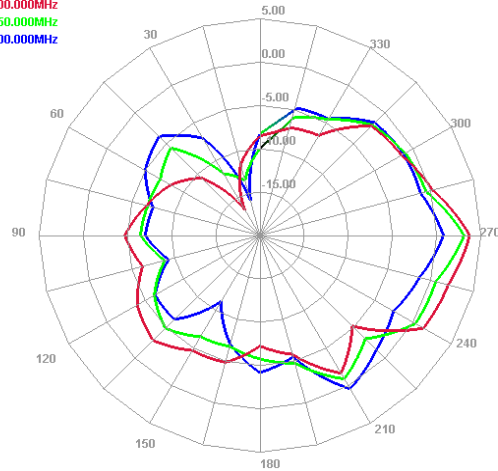
Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



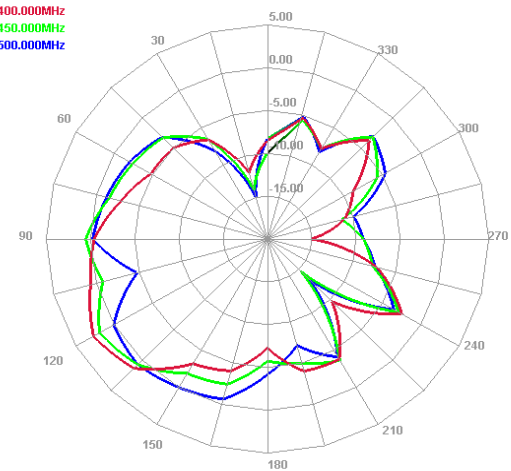
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



E2 Face

2400.000MHz
2450.000MHz
2500.000MHz





Razer T1 antenna test report

6. Conclusion

1. Active test data of T1 satellite box prototype is normal.
2. Passive test data of T1 satellite box prototype antenna is normal.



SINCE 1951

THANKS!

www.ggrec.com.cn

国光电器股份有限公司 Guoguang, Electric Co., Ltd.