



Antenna Test Report

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Tester : Zhou Yingjie

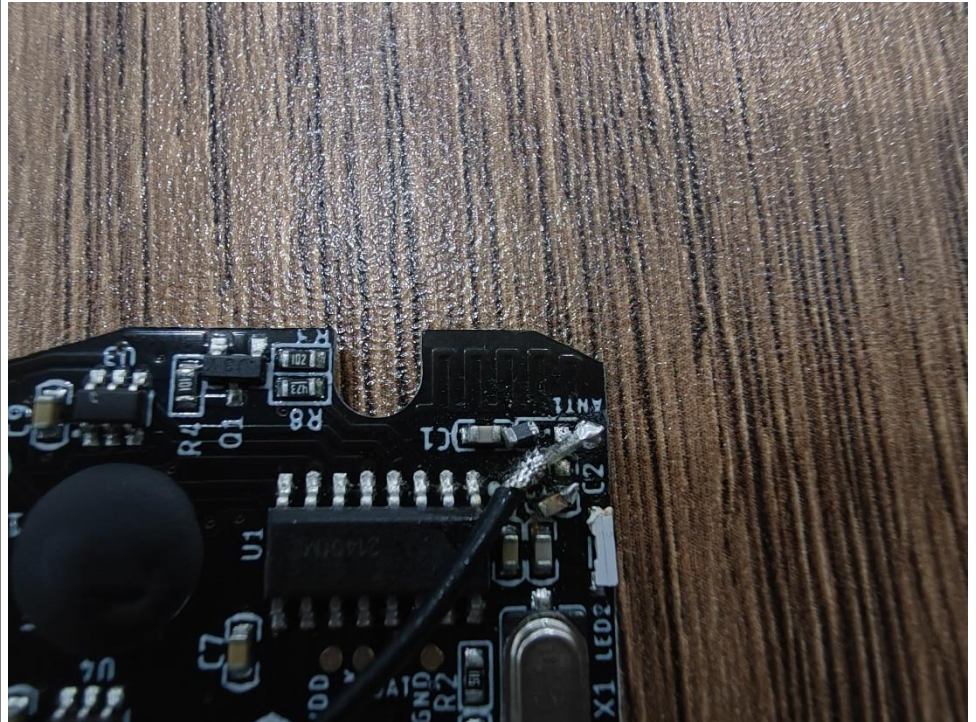
Approval : Chen Guoqiang

Date : 2023 / 07 / 19



1. Device Profile

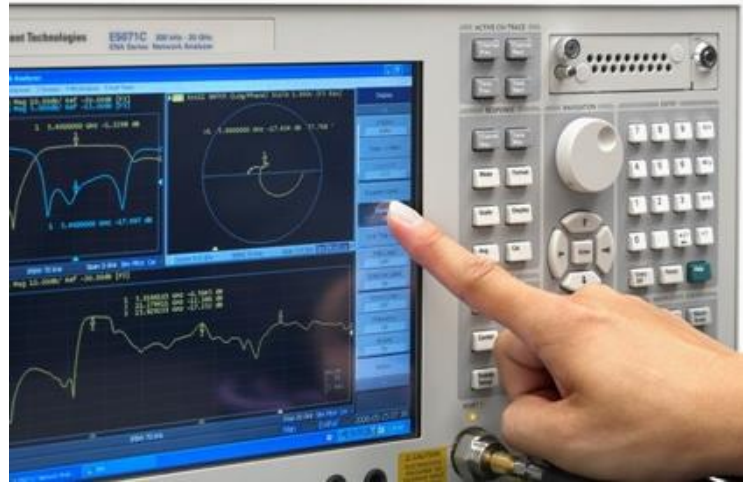
Device





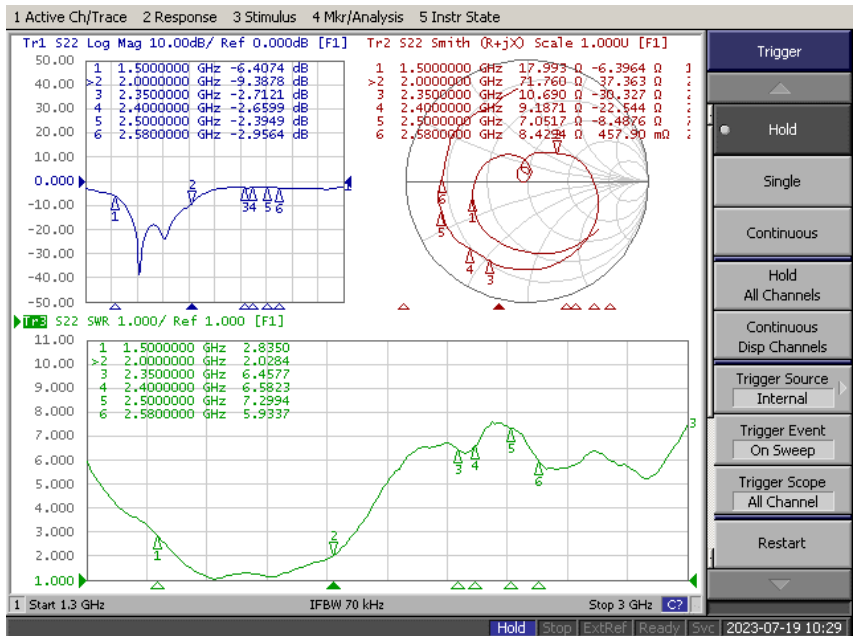
2. Antenna Performance Test

**Agilent
E5071B**



**S
Parameter
Test //**

Antenna



Trigger

Hold

Single

Continuous

Hold All Channels

Continuous Disp Channels

Trigger Source Internal

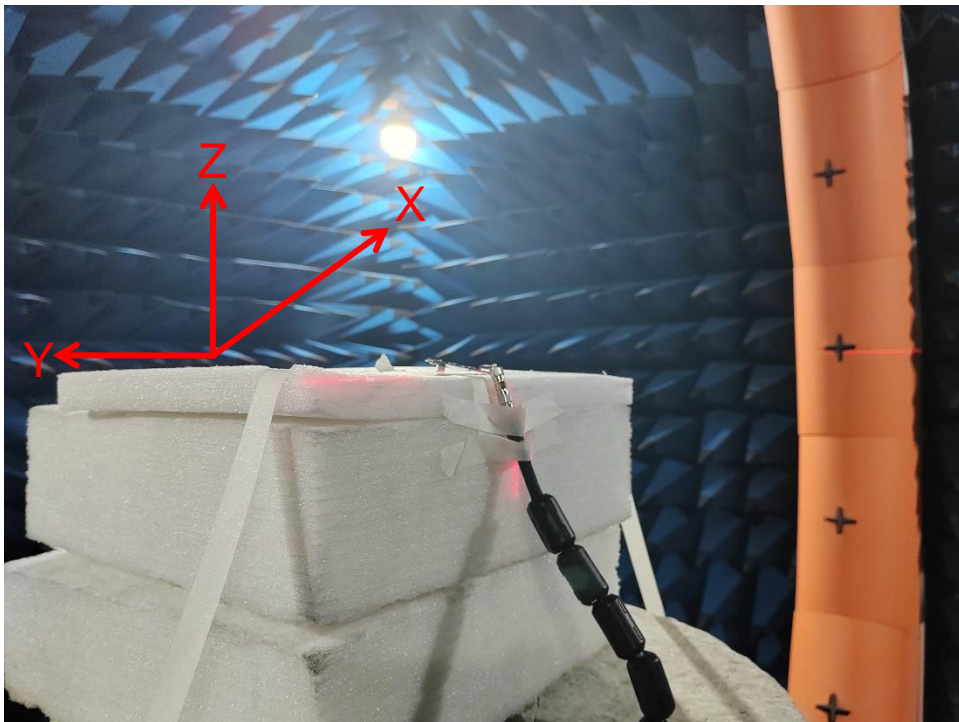
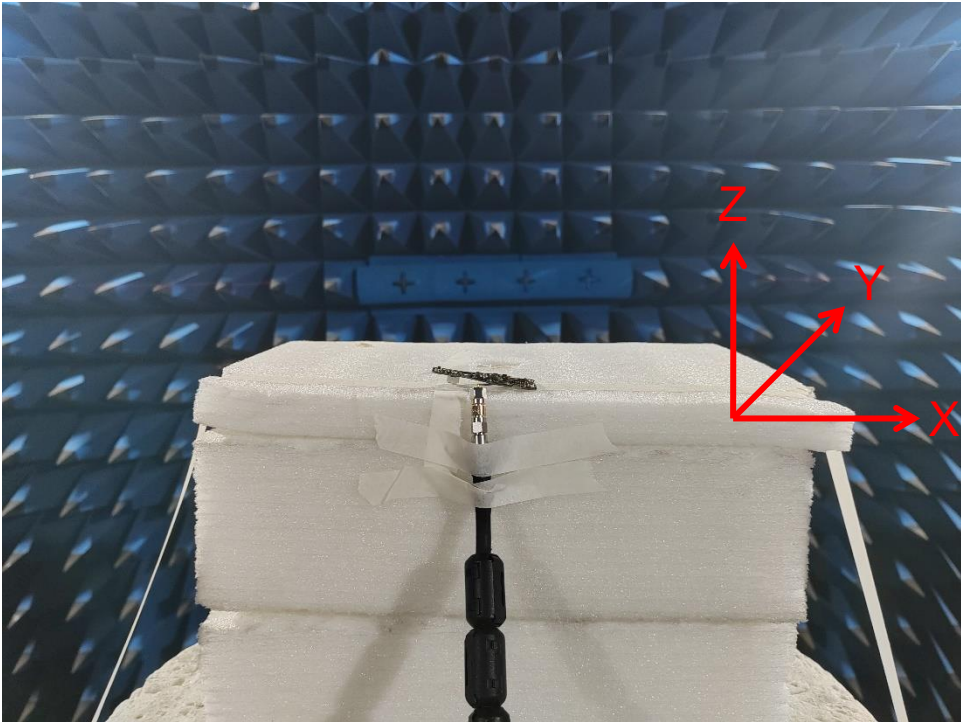
Trigger Event On Sweep

Trigger Scope All Channel

Restart

2023-07-19 10:29

3. *Antenna Passive Test*





Passive Test For Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1500	2.1	-16.7	-12.4
1510	2.1	-16.7	-12.5
1520	2.2	-16.5	-11.4
1530	2.3	-16.5	-11.7
1540	2.1	-16.8	-12.8
1550	2.0	-16.9	-12.2
1560	1.9	-17.1	-12.5
1570	1.9	-17.3	-12.4
1580	2.2	-16.6	-11.4
1590	1.8	-17.4	-12.9
1600	1.8	-17.4	-12.8
1610	1.9	-17.2	-12.4
1620	1.9	-17.2	-12.4
1630	2.0	-17.1	-12.3
1640	2.0	-16.9	-12.3



Passive Test For Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1650	2.1	-16.8	-12.0
1660	2.1	-16.8	-11.9
1670	2.1	-16.7	-11.9
1680	2.2	-16.6	-11.8
1690	2.2	-16.5	-11.8
1700	2.2	-16.5	-11.8
1710	2.3	-16.4	-11.4
1720	2.3	-16.4	-11.5
1730	2.3	-16.5	-11.5
1740	2.2	-16.6	-11.9
1750	2.2	-16.5	-11.4
1760	2.1	-16.8	-12.1
1770	1.9	-17.3	-13.2
1780	1.7	-17.6	-13.9
1790	1.6	-17.9	-13.9
1800	1.6	-17.9	-13.7



Passive Test For Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2350	0.7	-21.6	-16.6
2360	0.7	-21.6	-16.7
2370	0.7	-21.6	-16.5
2380	0.7	-21.7	-16.3
2390	0.7	-21.9	-16.3
2400	0.7	-21.6	-16.2
2410	0.6	-22.0	-16.5
2420	0.6	-22.6	-17.2
2430	0.5	-22.8	-17.2
2440	0.6	-22.6	-17.2
2450	0.6	-21.9	-16.5
2460	0.6	-22.1	-17.0

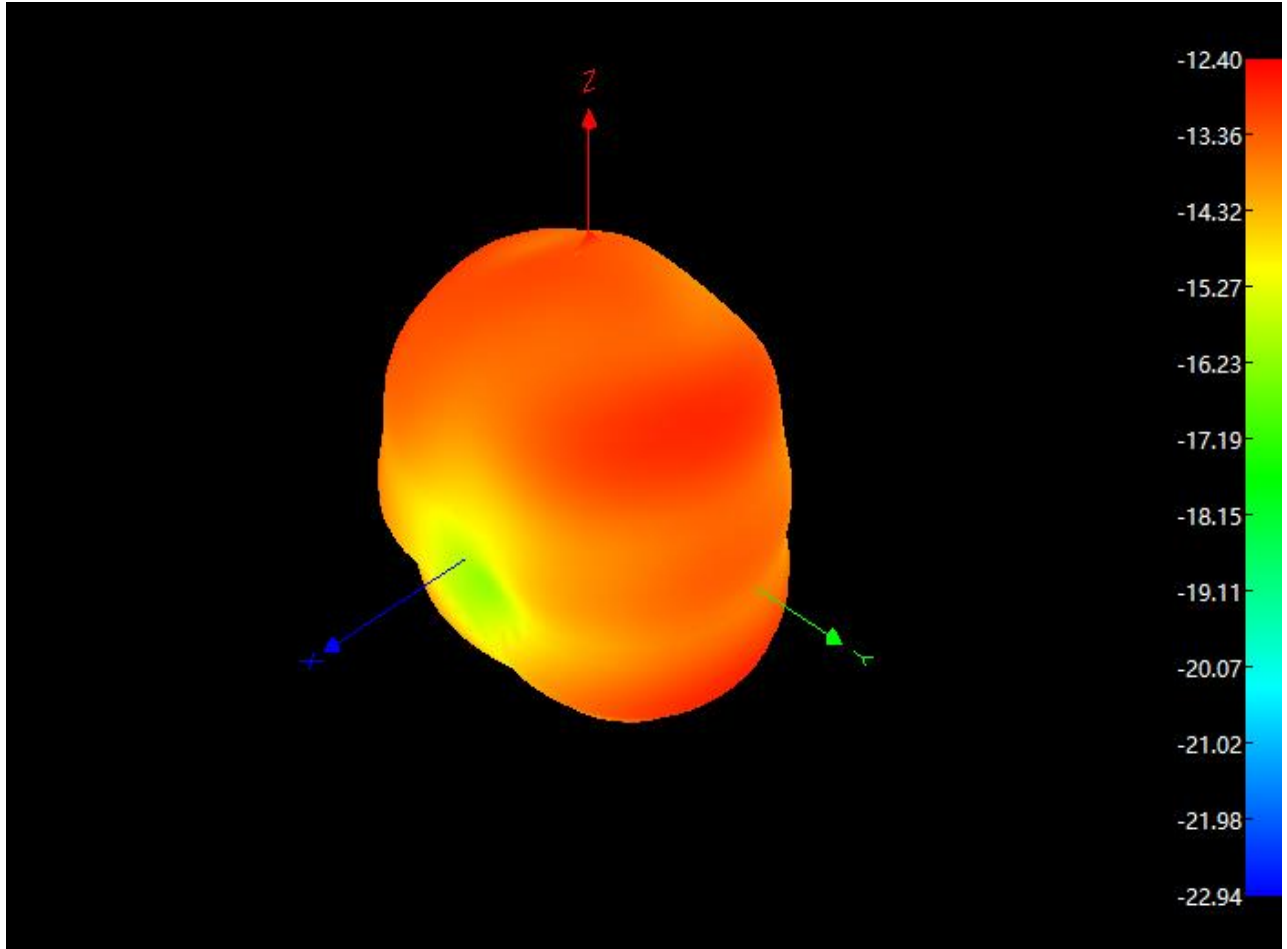


Passive Test For Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2470	0.6	-22.3	-16.8
2480	0.6	-22.3	-16.8
2490	0.6	-22.2	-16.7
2500	0.6	-22.3	-16.8
2510	0.7	-21.9	-16.6
2520	0.6	-21.9	-16.7
2530	0.6	-21.9	-16.8
2540	0.6	-22.0	-16.9
2550	0.7	-21.5	-16.5
2560	0.7	-21.4	-16.5
2570	0.7	-21.6	-16.5
2580	0.7	-21.7	-17.0

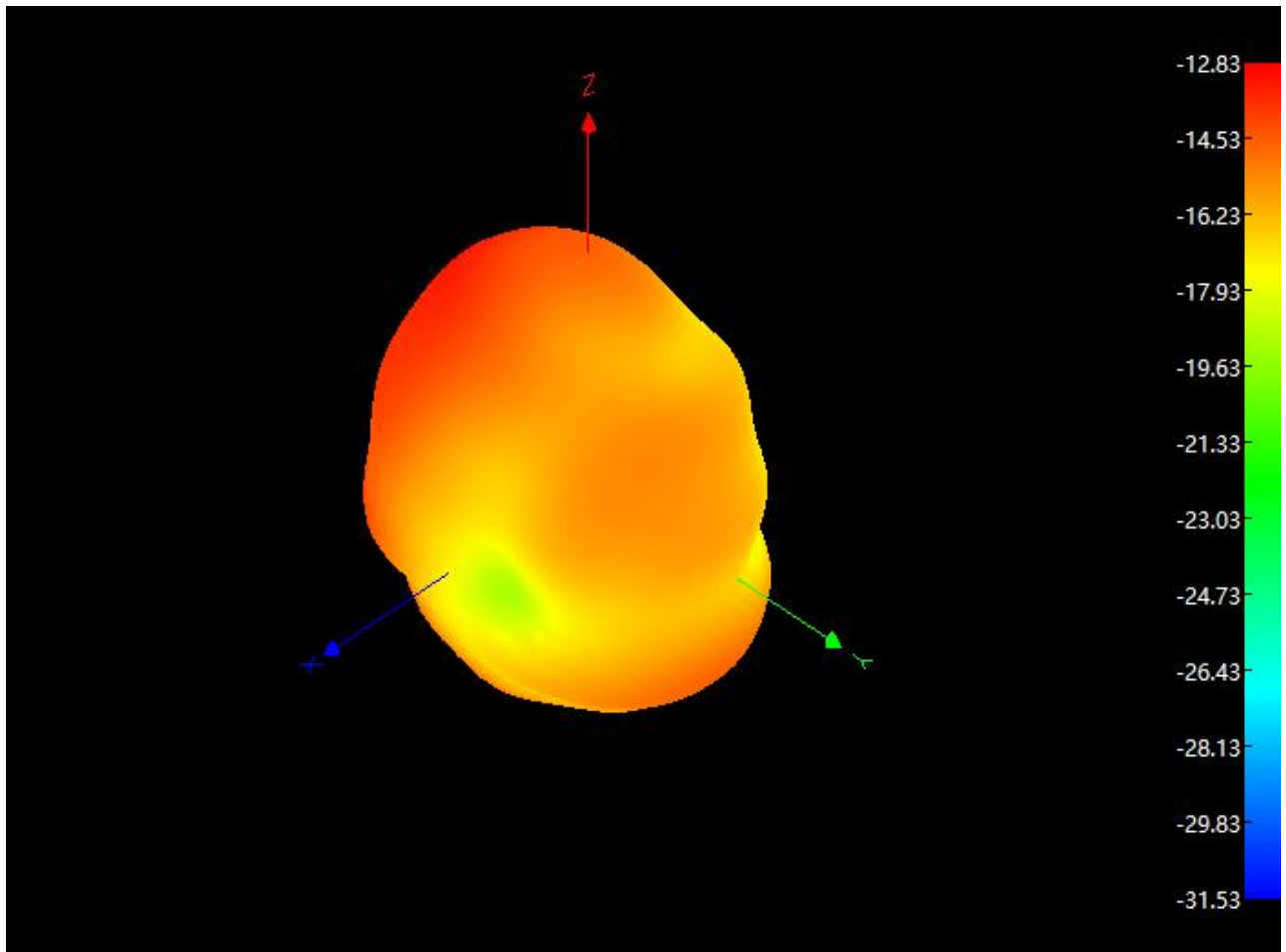


Radiation Pattern For Antenna(1500MHz)



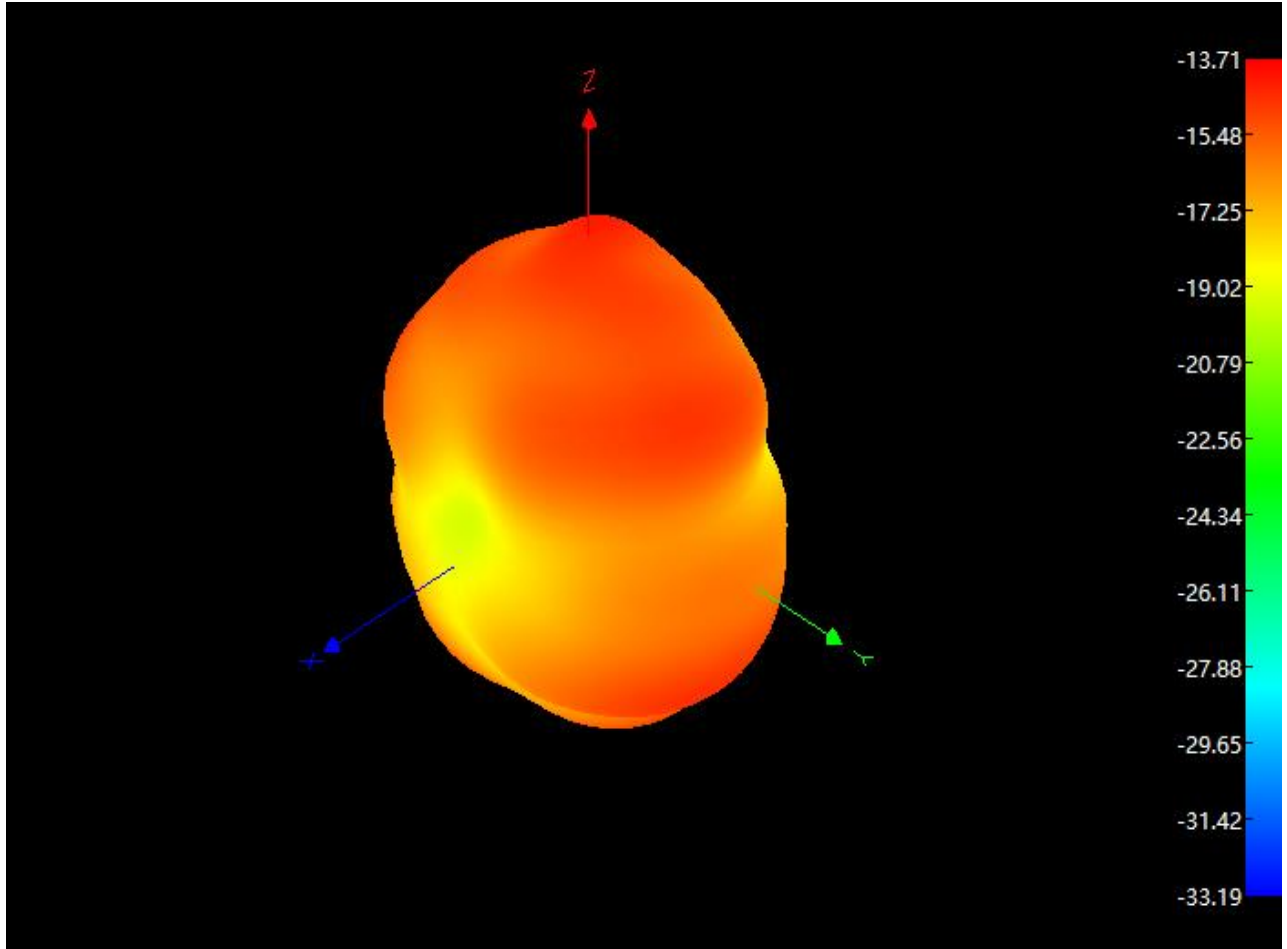


Radiation Pattern For Antenna(1600MHz)



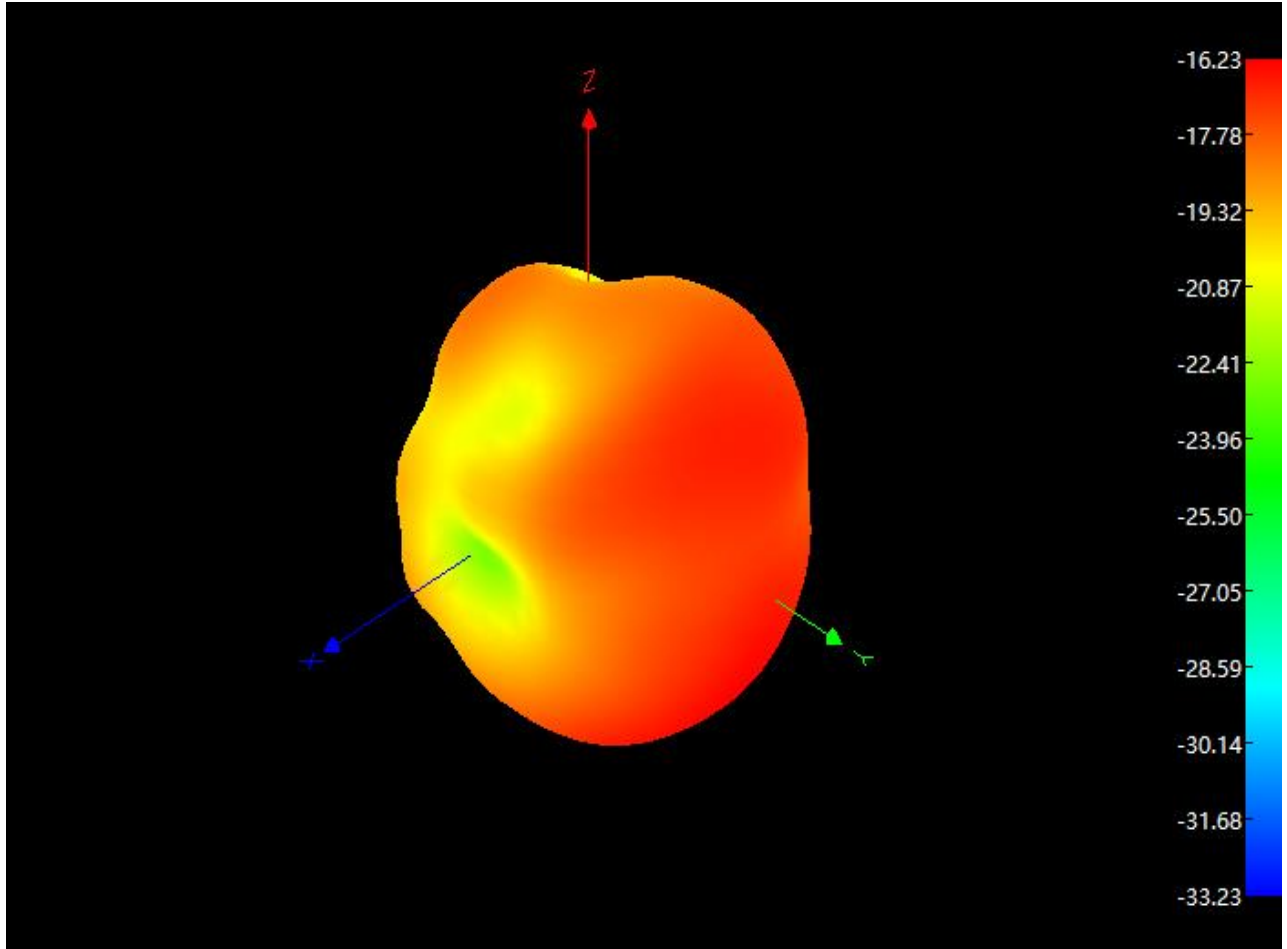


Radiation Pattern For Antenna(1800MHz)



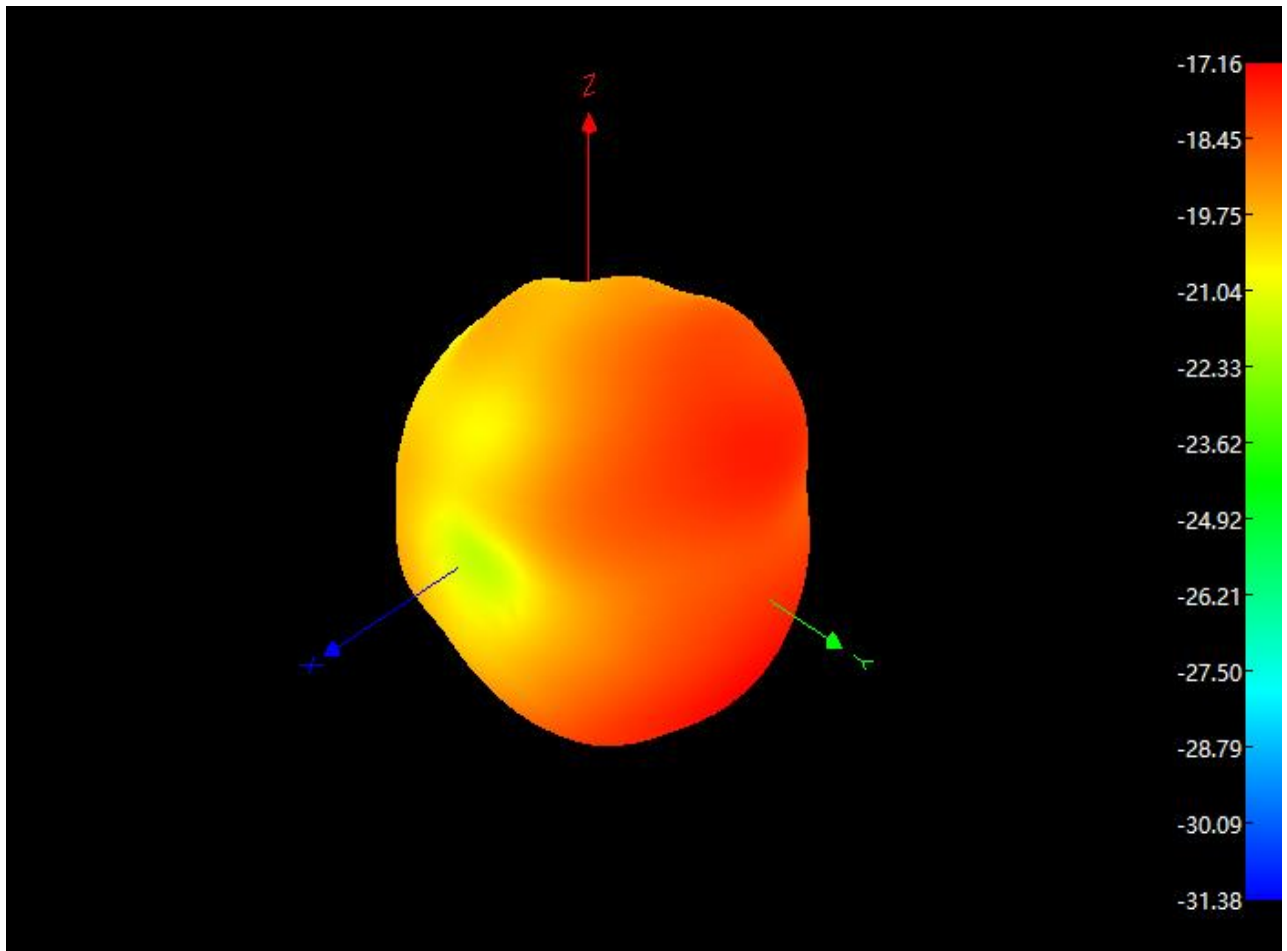


Radiation Pattern For Antenna(2400MHz)



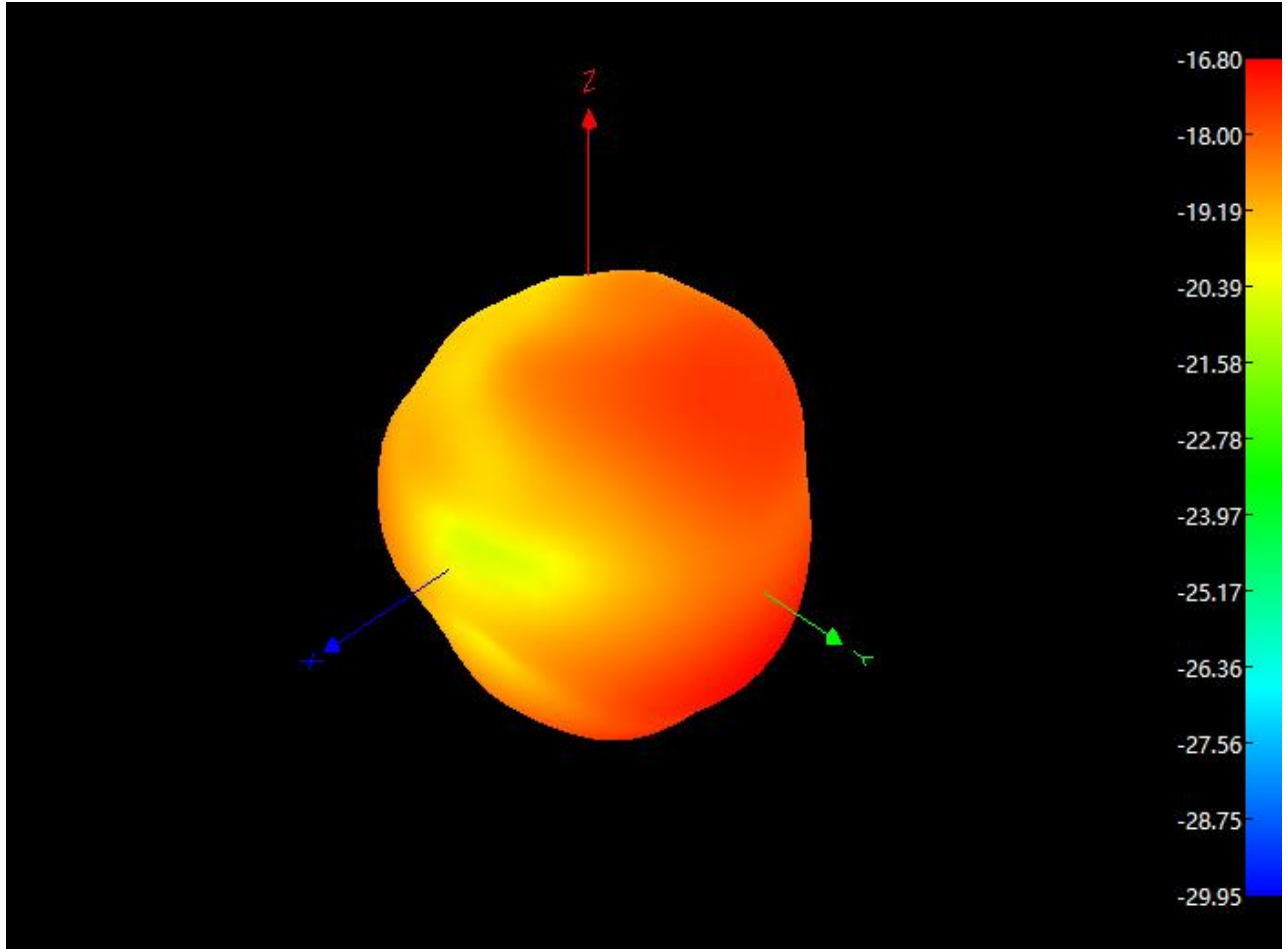


Radiation Pattern For Antenna(2440MHz)





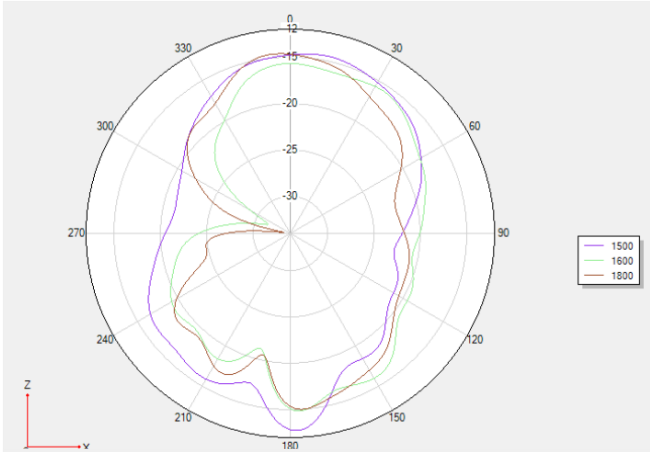
Radiation Pattern For Antenna(2480MHz)



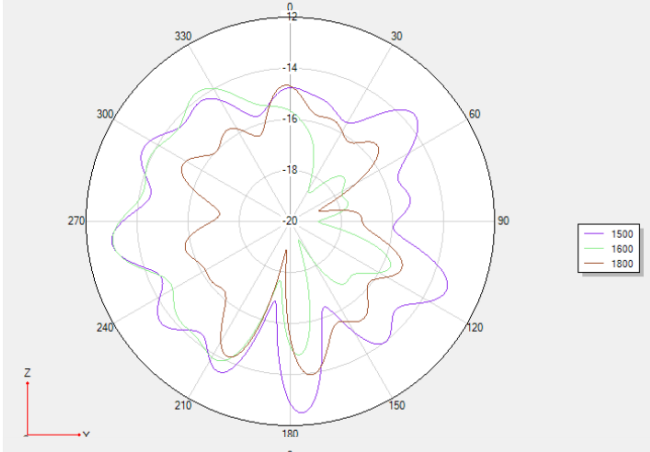


Radiation Pattern For Antenna(1.5-1.8G)

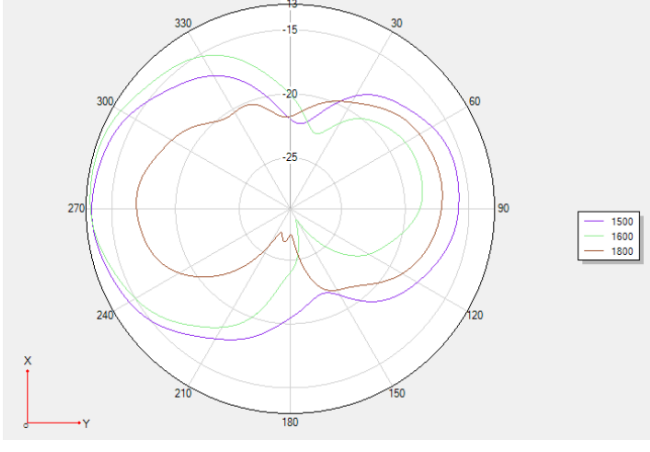
Phi 0°



Phi 90°



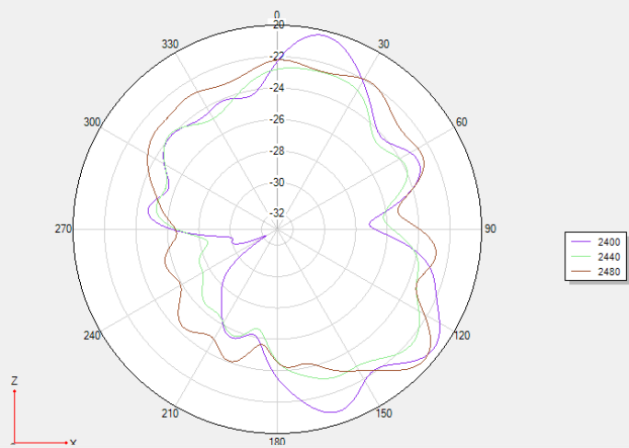
Theta 90°



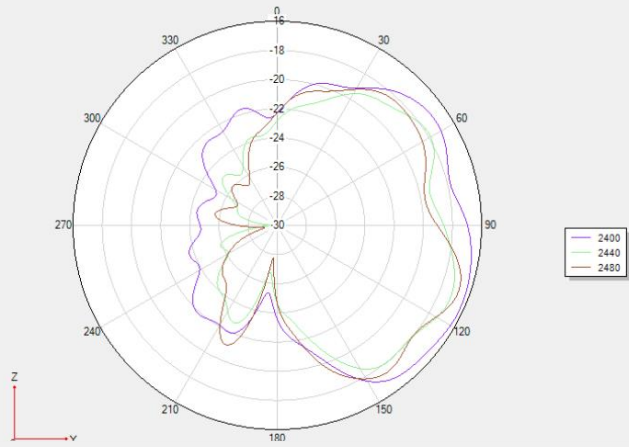


Radiation Pattern For Antenna(2.35-2.58G)

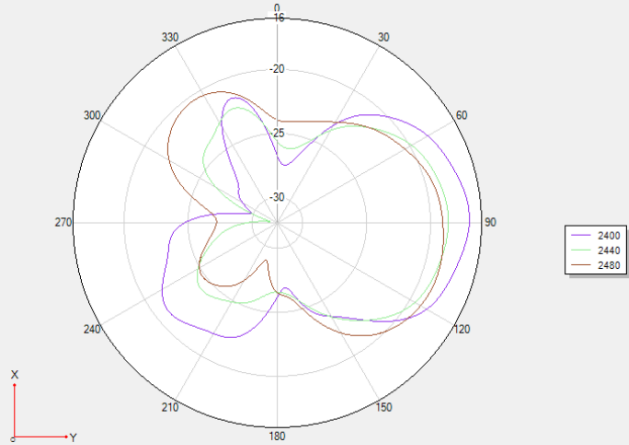
Phi 0°



Phi 90°



Theta 90°





4. Assembly Picture

