

SolarX 110 Antenna Report


LTE Antenna Information

Antenna Name	LTE Antenna-part 1
Antenna Model	SX310_MAIN_ANT_V1.1
Antenna Type	PCB Antenna Board
Antenna Size	40.8x18.5x0.8mm
Antenna Manufacturer	Shenzhen TOPFLYTech Co.,Limited
Manufacturer Address	4th-5th floor,Scientific Research Building,Tsinghua Info Hub,Nanshan Hi-Tech Park,Shenzhen,Guangdong,China
Band & Frequency	GSM 850/GSM1900 LTE B2/B4/B5/B7/B12/B13/B17/B25/B26/B38/B40/B41/B66
Antenna Photo	

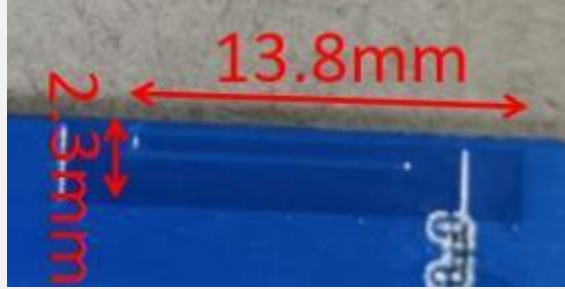
LTE Antenna Information

Antenna Name	LTE Antenna-part 2
Antenna Model	SX310_ANT_GND_V1.1
Antenna Type	PCB Antenna Board
Antenna Size	23x22.1x0.8mm
Antenna Manufacturer	Shenzhen TOPFLYTech Co.,Limited
Manufacturer Address	4th-5th floor,Scientific Research Building,Tsinghua Info Hub,Nanshan Hi-Tech Park,Shenzhen,Guangdong,China
Band & Frequency	GSM 850/GSM1900 LTE B2/B4/B5/B7/B12/B13/B17/B25/B26/B38/B40/B41/B66
Antenna Photo	 The 'Antenna Photo' cell contains two side-by-side images of the antenna. The left image shows the antenna with red dimension lines indicating a width of 23mm and a height of 22.1mm. The antenna is light blue with a black label that reads 'SX310_ANT_GND_V1.1', '20231222', and 'In Ward'. The right image shows the antenna from a different perspective, highlighting its blue color and the metallic contacts at the bottom.

LTE Antenna Information

Antenna Name	LTE Antenna-part 3
Antenna Model	/
Antenna Type	PCB Printed Antenna
Antenna Size	32.8x12mm
Antenna Manufacturer	Shenzhen TOPFLYTech Co.,Limited
Manufacturer Address	4th-5th floor,Scientific Research Building,Tsinghua Info Hub,Nanshan Hi-Tech Park,Shenzhen,Guangdong,China
Band & Frequency	GGSM 850/GSM1900 LTE B2/B4/B5/B7/B12/B13/B17/B25/B26/B38/B40/B41/B66
Antenna Photo	

BT Antenna Information

Antenna Name	BT Antenna
Antenna Model	/
Antenna Type	PCB Printed Antenna
Antenna Size	13.8x2.3mm
Antenna Manufacturer	Shenzhen TOPFLYTech Co.,Limited
Manufacturer Address	4th-5th floor,Scientific Research Building,Tsinghua Info Hub,Nanshan Hi-Tech Park,Shenzhen,Guangdong,China
Band & Frequency	2402~2480MHz
Antenna Photo	

GPS Antenna Information

Antenna Name	GPS Antenna
Antenna Model	/
Antenna Type	PCB Printed Antenna
Antenna Size	20x5.3mm
Antenna Manufacturer	Shenzhen TOPFLYTech Co.,Limited
Manufacturer Address	4th-5th floor,Scientific Research Building,Tsinghua Info Hub,Nanshan Hi-Tech Park,Shenzhen,Guangdong,China
Band & Frequency	1559~1610MHz
Antenna Photo	

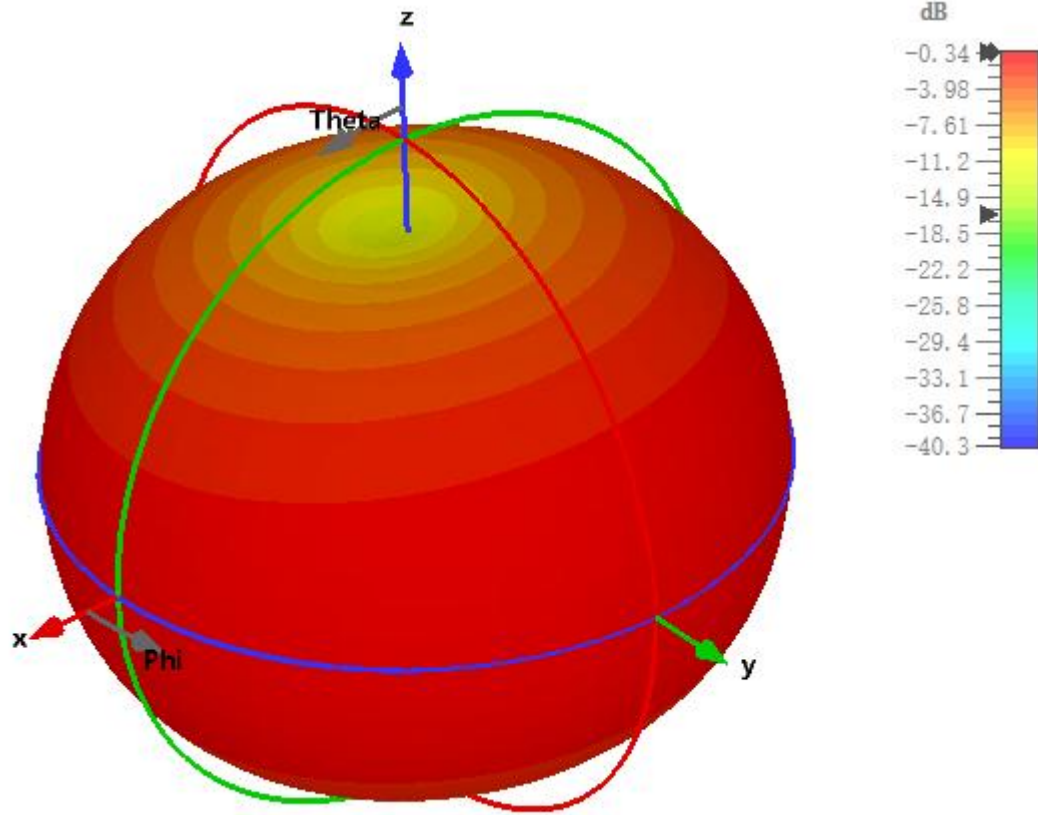
GPS Antenna Performance — Efficiency and Gain

Frequency (Mhz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
1559	-3.70	42.67%	3.28
1560	-3.50	44.71%	3.46
1562	-3.28	47.04%	3.60
1564	-3.07	49.29%	3.73
1572	-2.44	57.04%	4.03
1574	-2.35	58.26%	3.90
1576	-2.26	59.39%	3.77
1578	-2.22	60.02%	3.83
1596	-2.40	57.53%	3.99
1598	-2.37	57.89%	4.21
1600	-2.33	58.51%	4.37
1602	-2.34	58.39%	4.39
1604	-2.36	58.02%	4.41
1606	-2.34	58.39%	4.49
1610	58.42%	-2.41	4.49

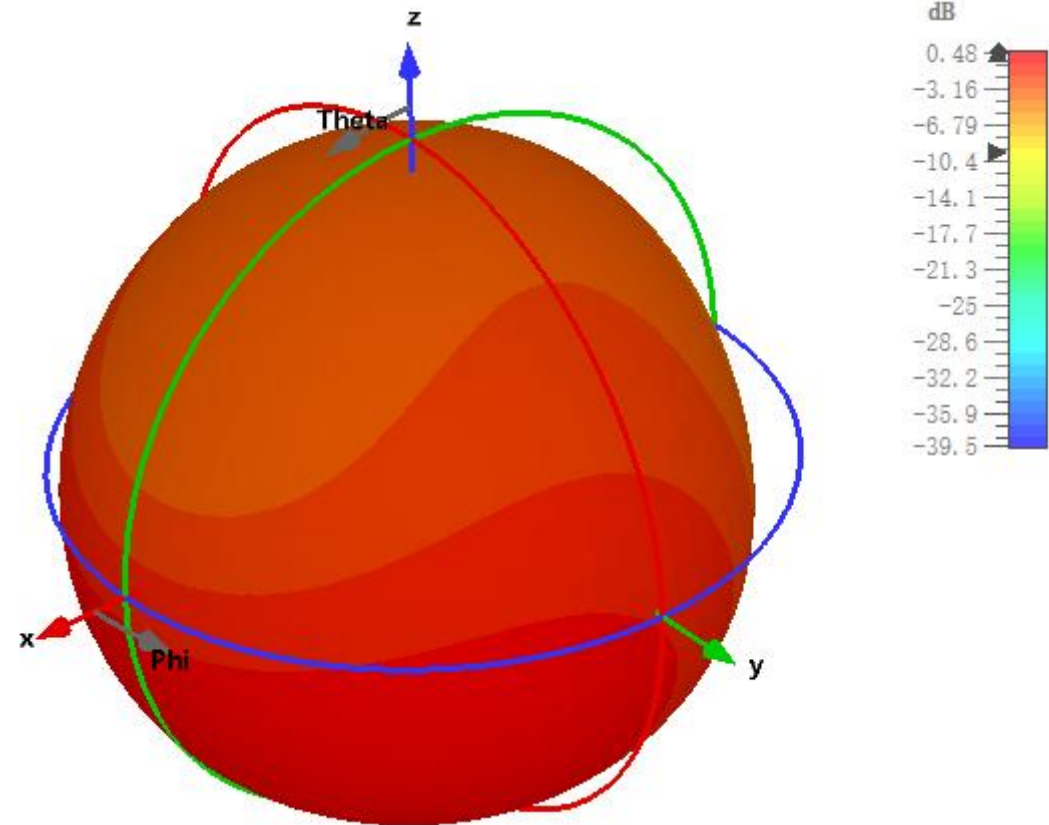
LTE&BT Antenna Performance — Band with Peak Gain

Mode	Frequency(MHz)	Peak Gain (dBi)	Antenna Type
BT-LE	2402 ~ 2480	1.65	PCB Antenna
GSM850	824 ~ 849	-0.34	PCB Antenna
GSM1900	1850 ~ 1910	0.48	PCB Antenna
LTE B2	1850 ~ 1910	0.48	PCB Antenna
LTE B4	1710 ~ 1755	0.10	PCB Antenna
LTE B5	824 ~ 849	-0.34	PCB Antenna
LTE B7	2500 ~ 2570	0.55	PCB Antenna
LTE B12	699 ~ 716	-2.98	PCB Antenna
LTE B13	777 ~ 787	-1.69	PCB Antenna
LTE B17	704 ~ 716	-2.98	PCB Antenna
LTE B25	1850 ~ 1915	0.48	PCB Antenna
LTE B26	814~ 849	-0.34	PCB Antenna
LTE B38	2570 ~ 2620	-0.12	PCB Antenna
LTE B40	2305 ~ 2315	-0.01	PCB Antenna
	2350 ~ 2360	-0.07	PCB Antenna
LTE B41	2496 ~ 2690	1.04	PCB Antenna
LTE B66	1710 ~ 1780	0.10	PCB Antenna

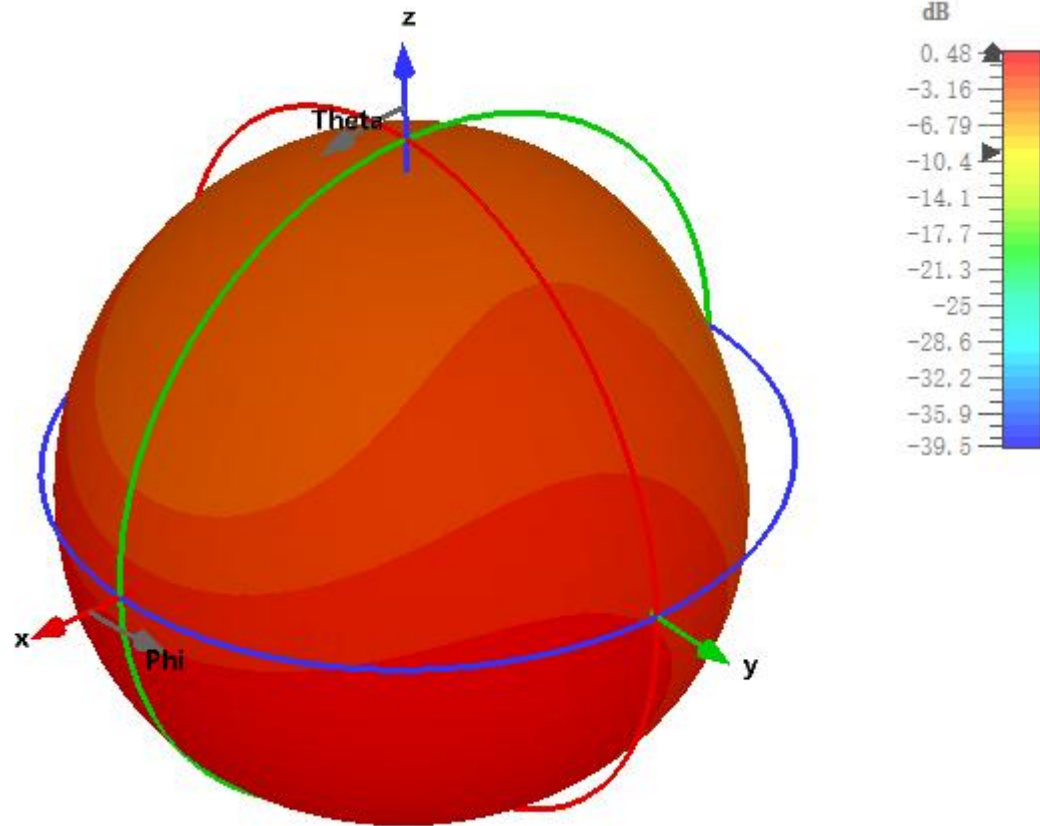
GSM850@-0.34dBi



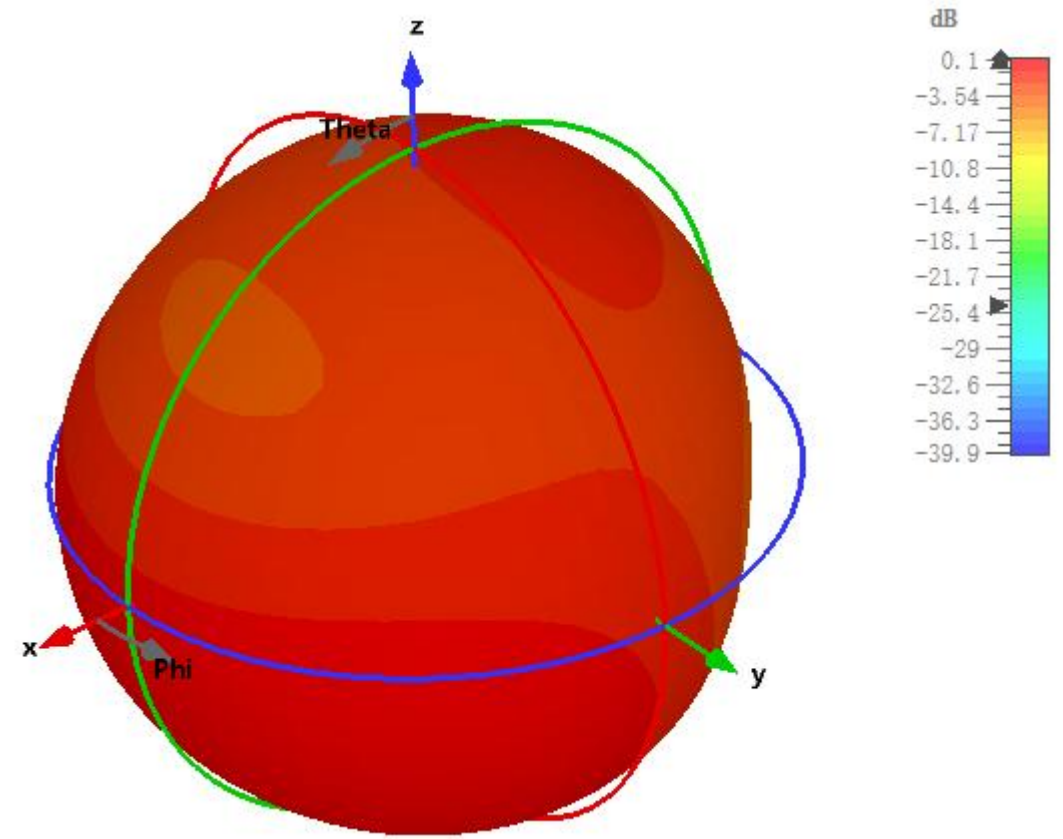
GSM1900@0.48dBi



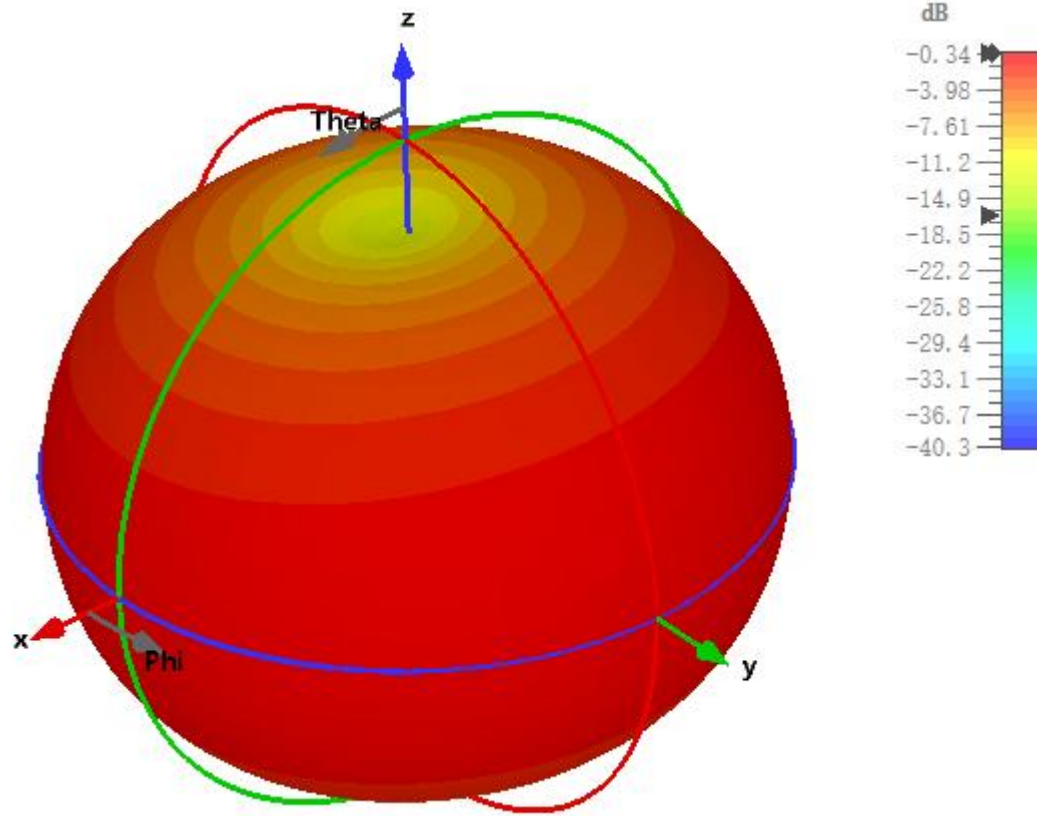
Band 2@0.48dBi



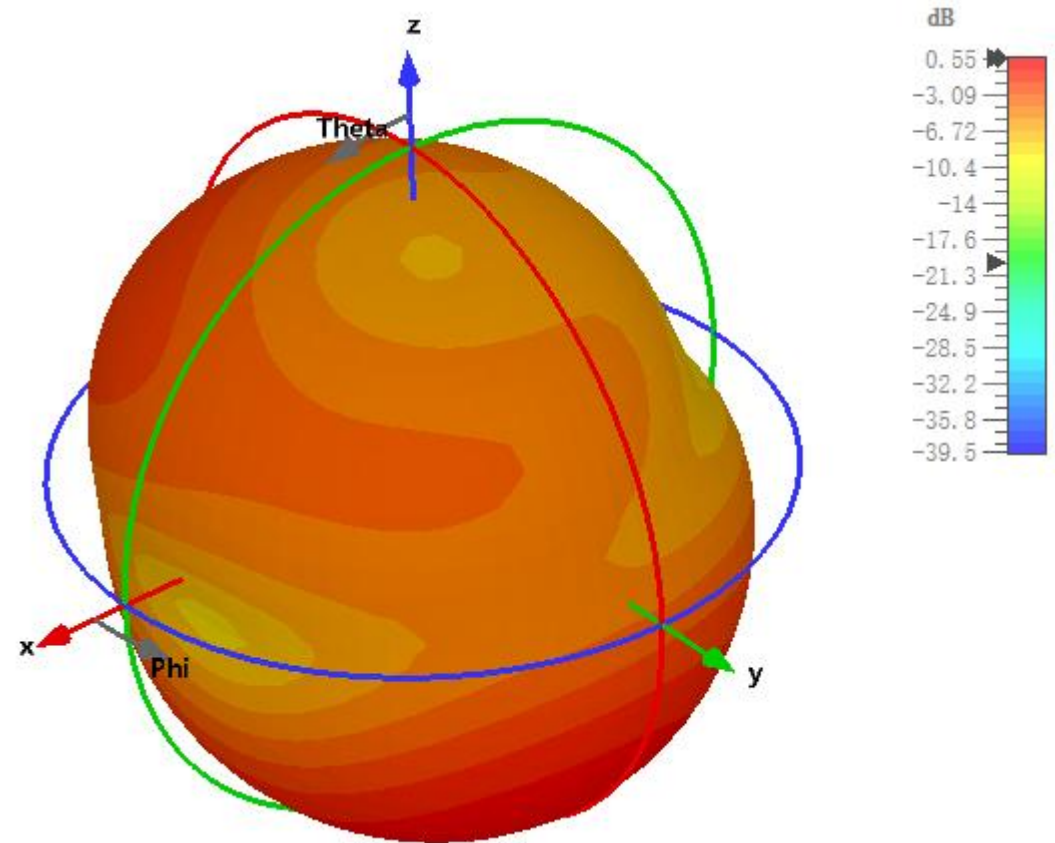
Band 4@0.10dBi



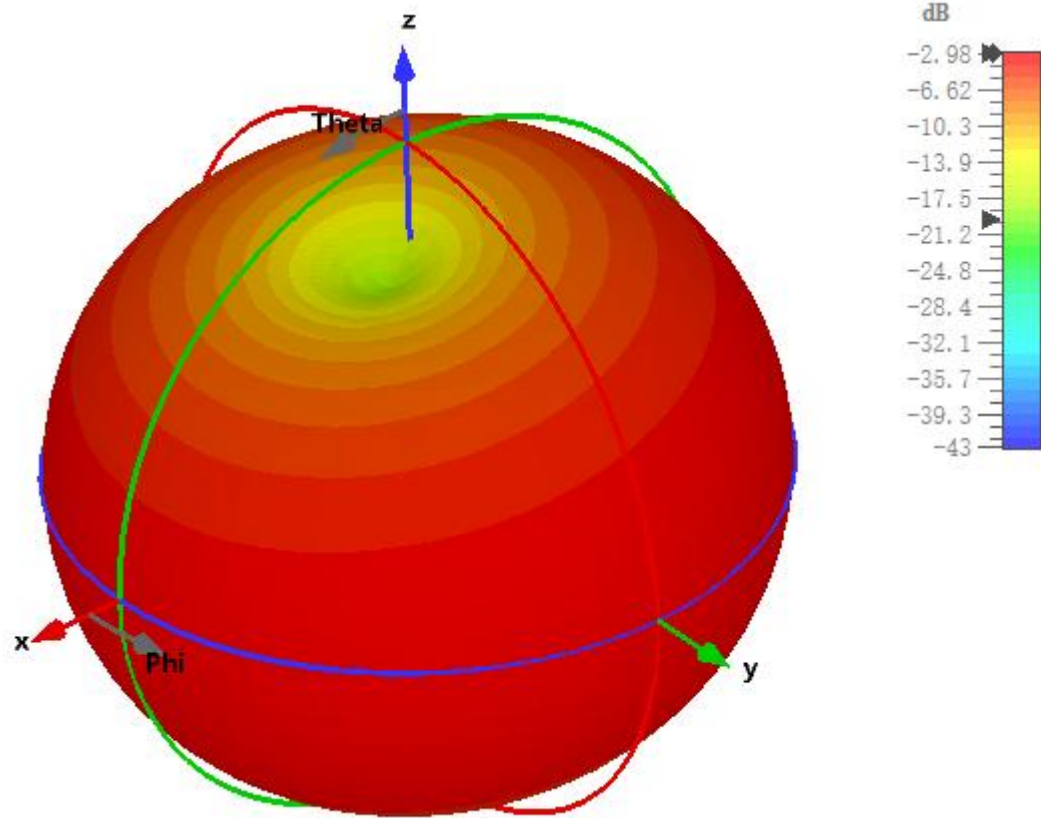
Band 5@-0.34dBi



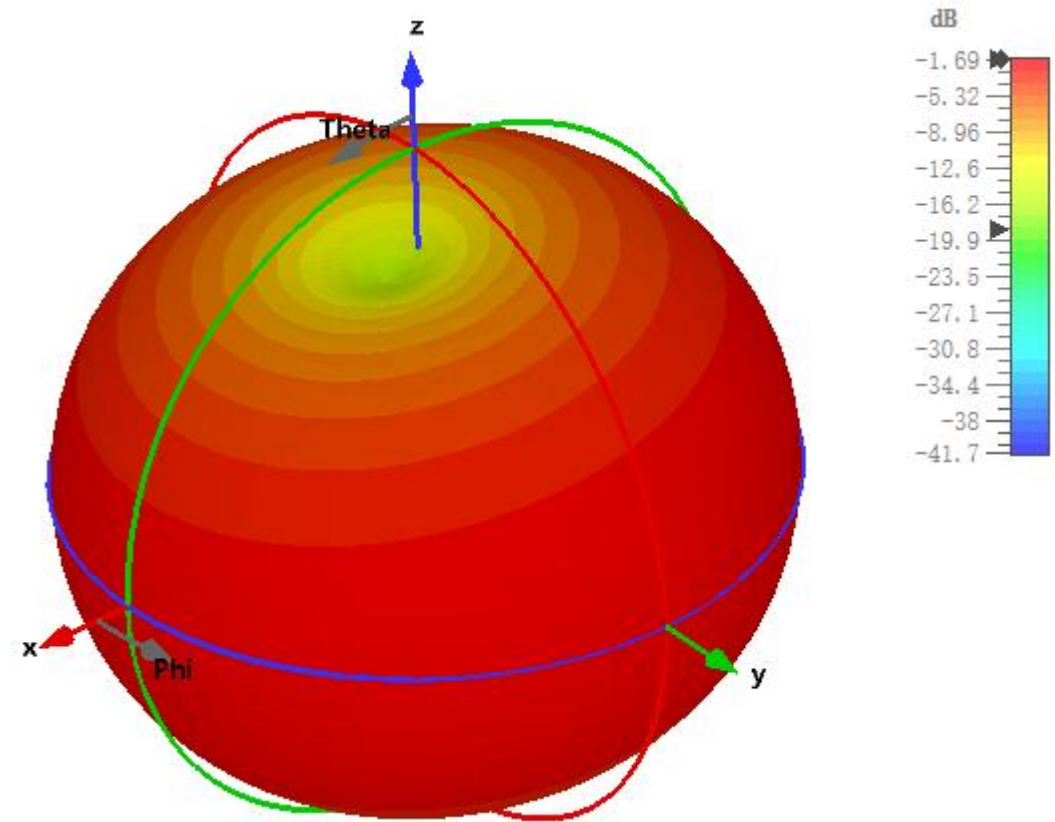
Band 7@0.55dBi



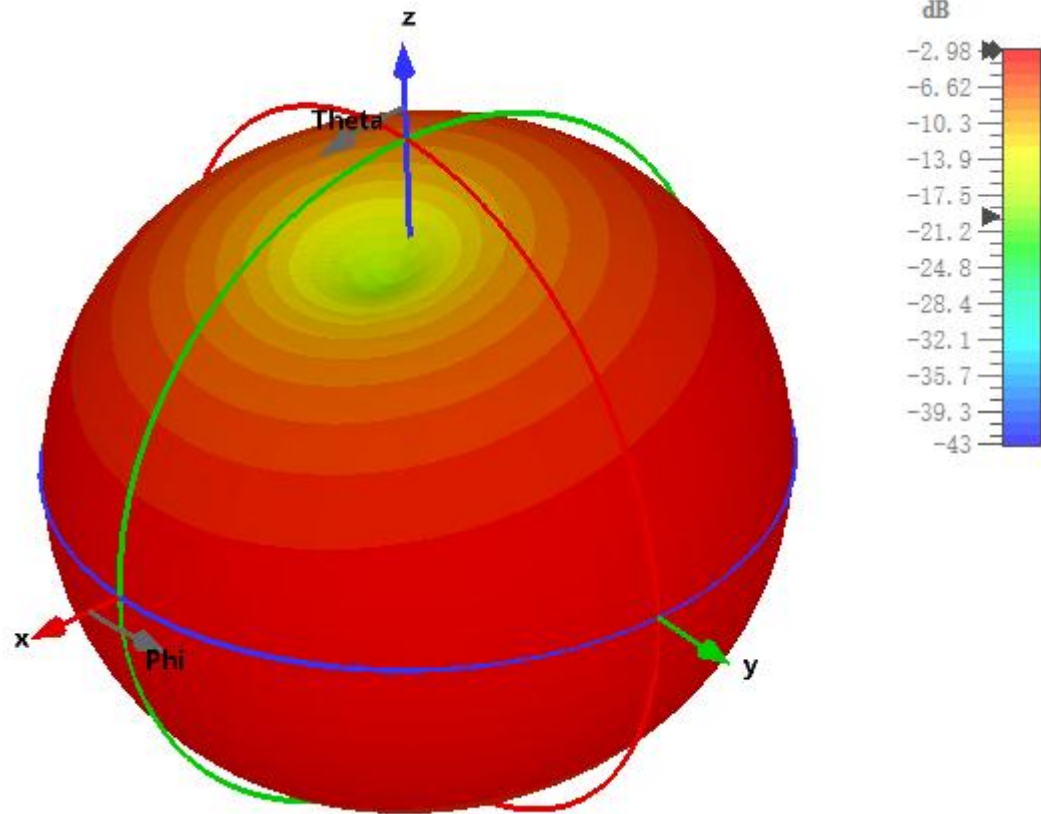
Band 12@-2.98dBi



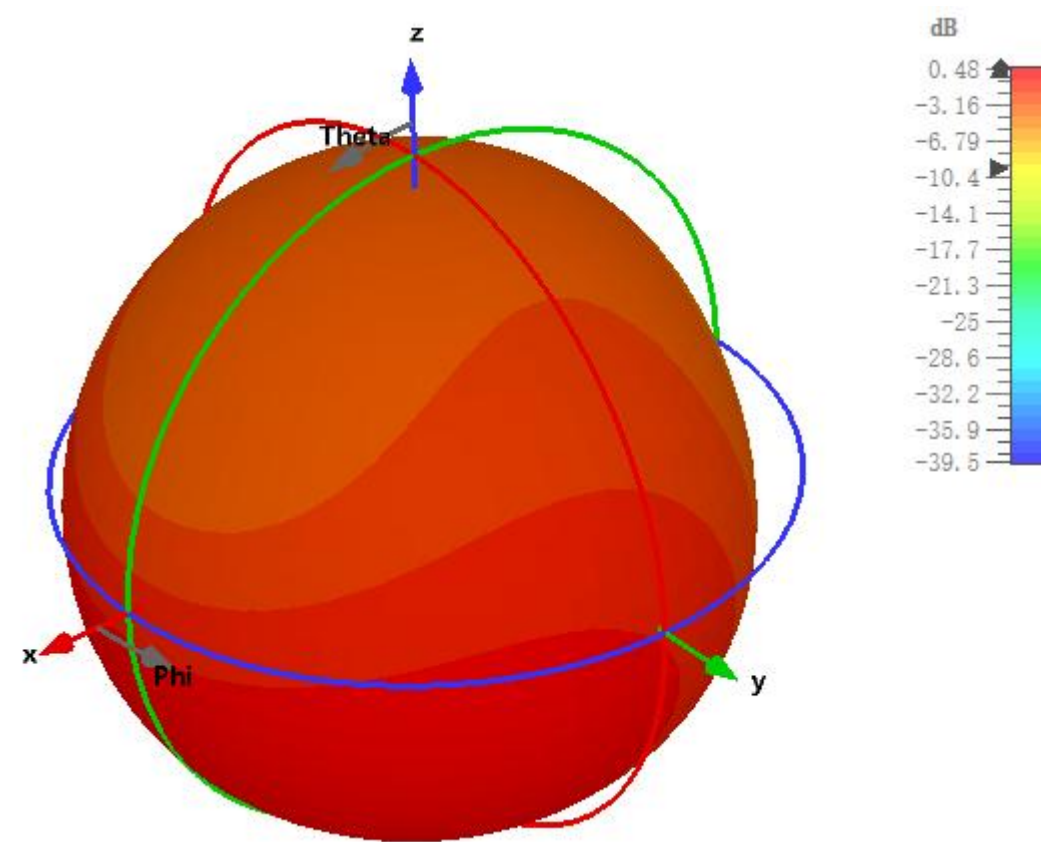
Band 13@-1.69dBi



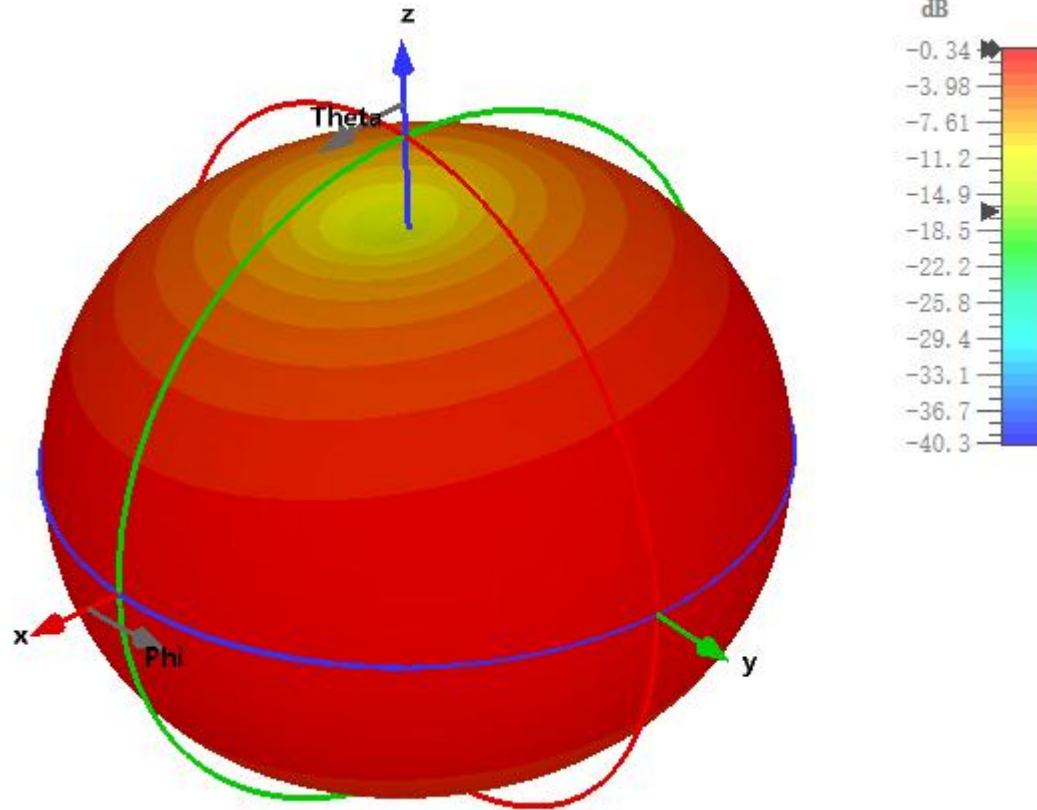
Band 17@-2.98dBi



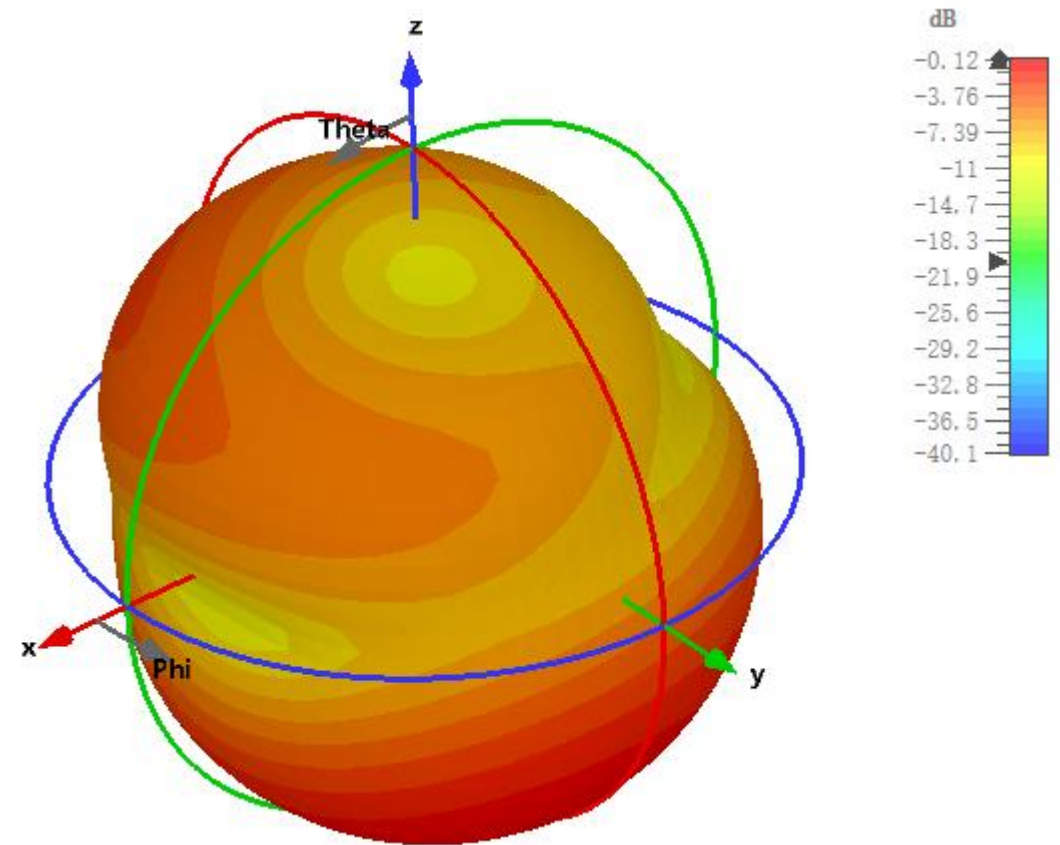
Band 25@0.48dBi



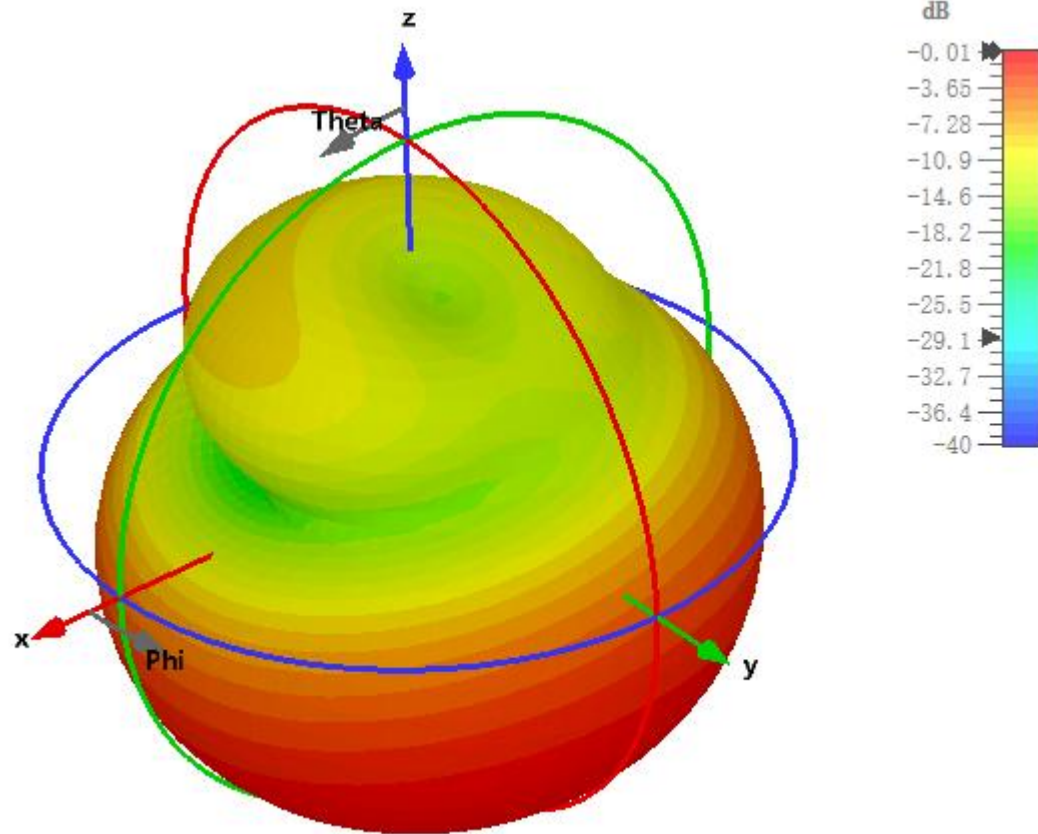
Band 26@-0.34dBi



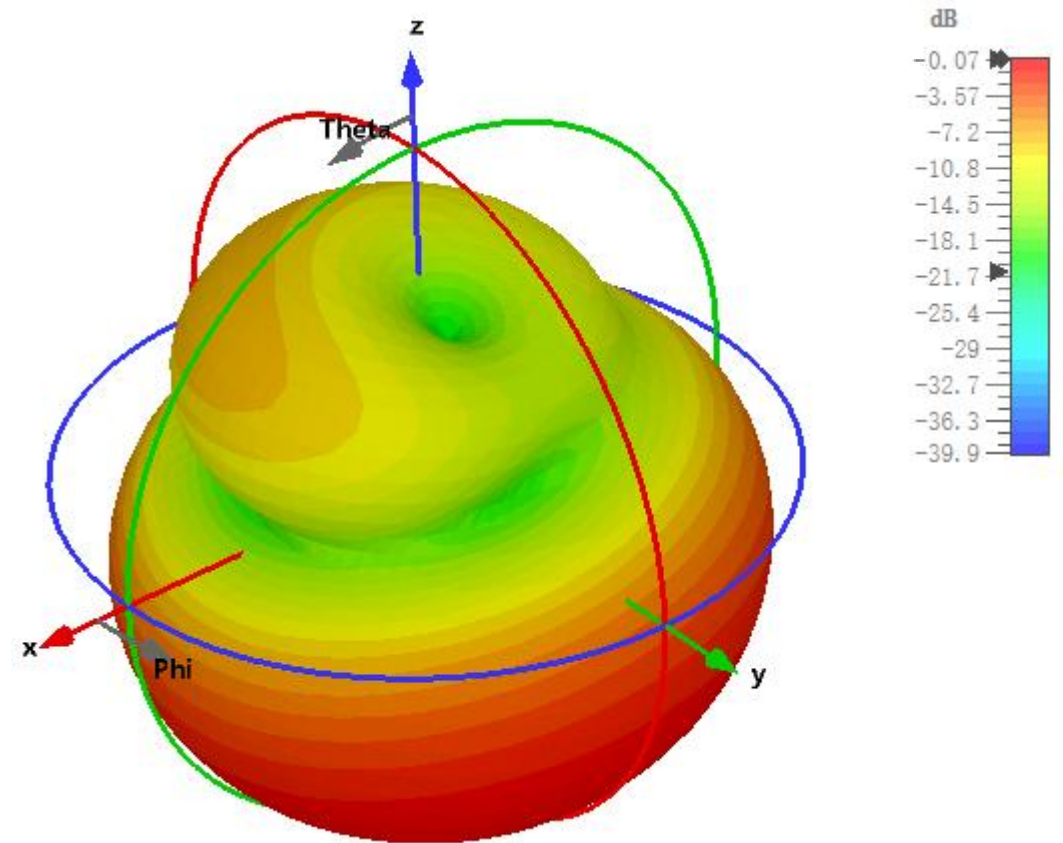
Band 38@-0.12dBi



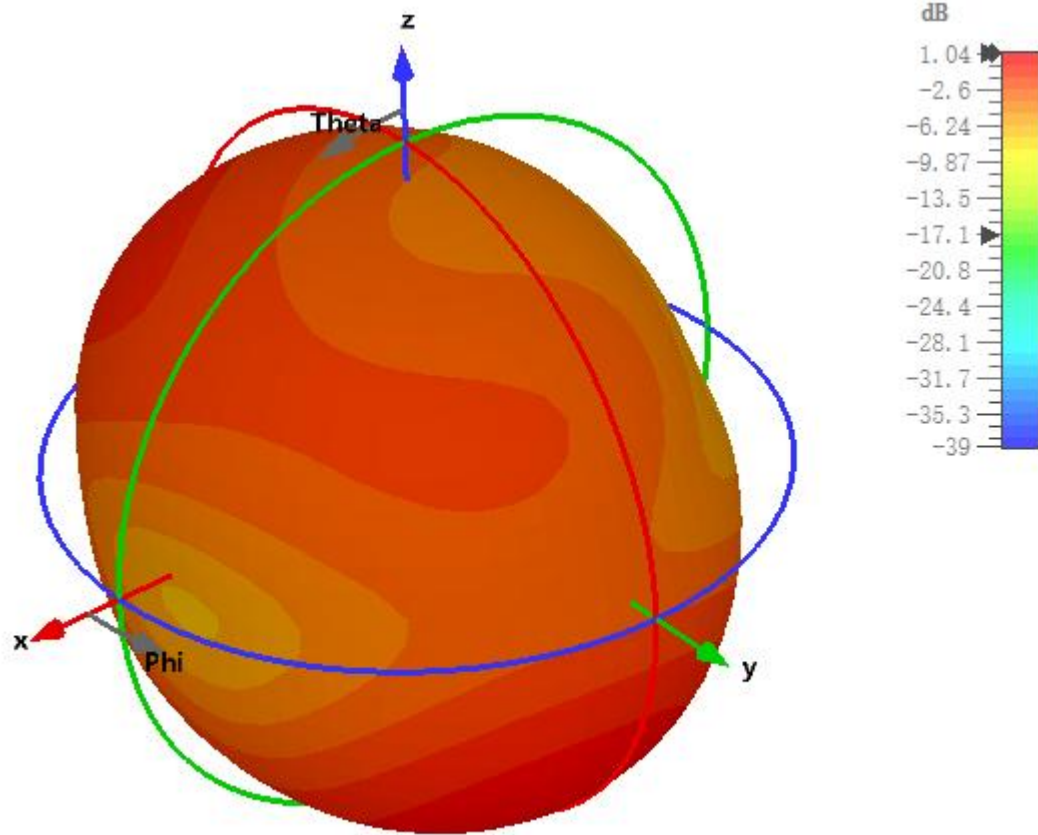
Band 40@-0.01dBi



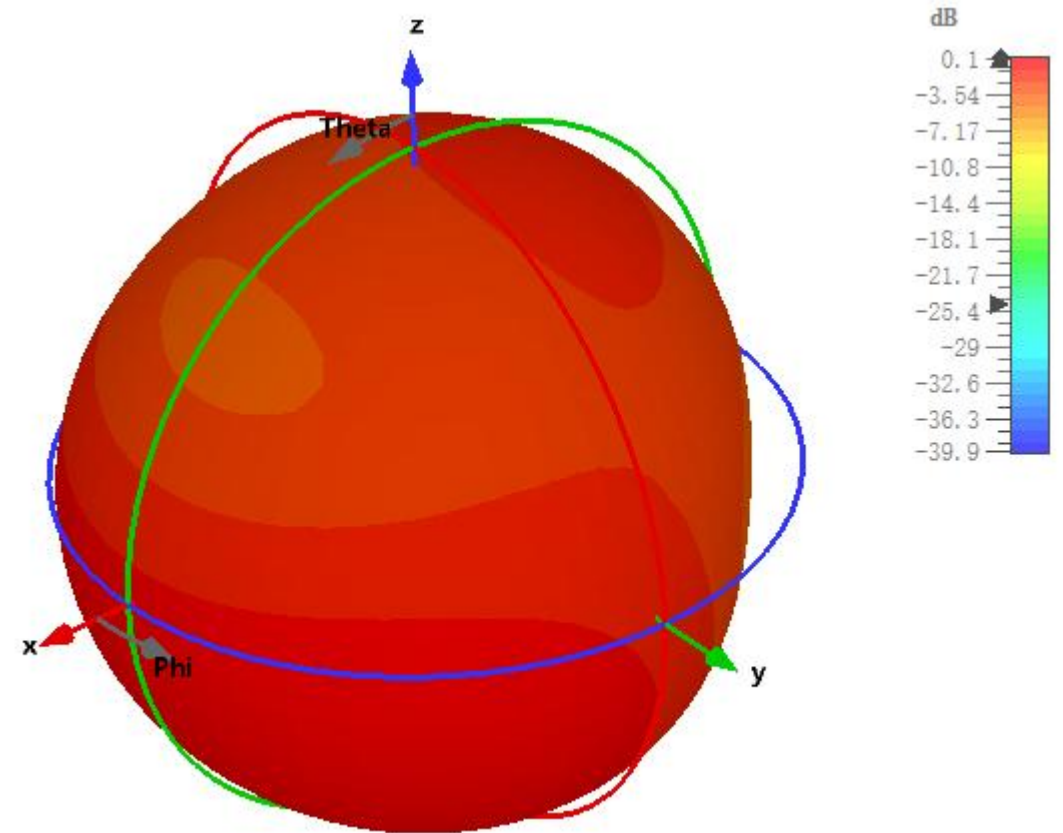
Band 40@-0.07dBi



Band 41@1.04dBi



Band 66@0.10dBi



BT-LE@ 1.65dBi

