

1. WWAN Main antenna

(a) WWAN Main antenna information

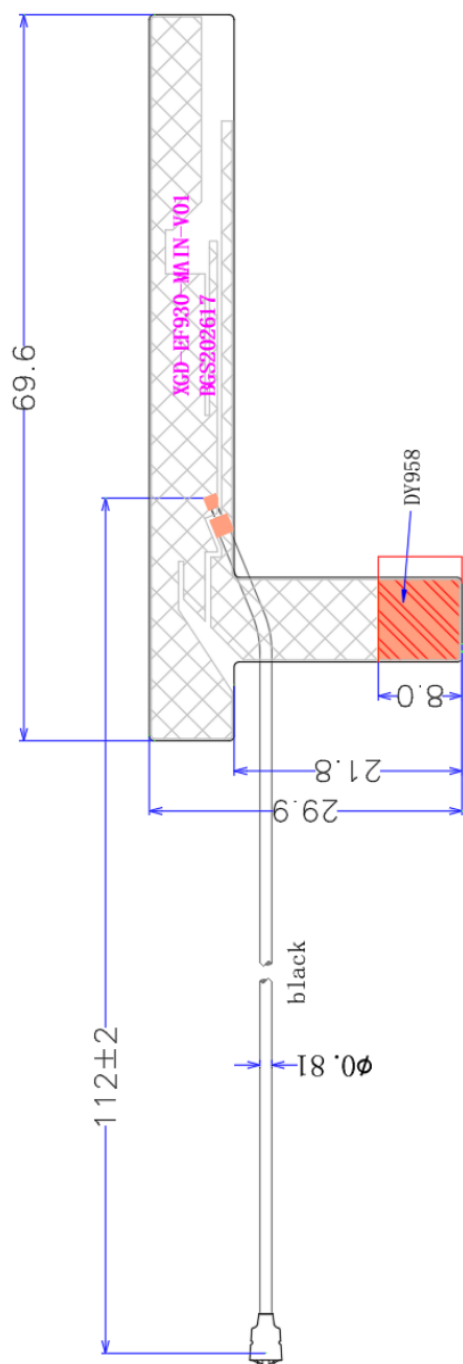
Manufacturer: Shenzhen Bogesi Communication Technology Co.,Ltd.

Address: Room 308, Building B, Sabenol Building, No.19, Kejizhong 1st Road, Nanshan District, Shenzhen, Guangdong, China.

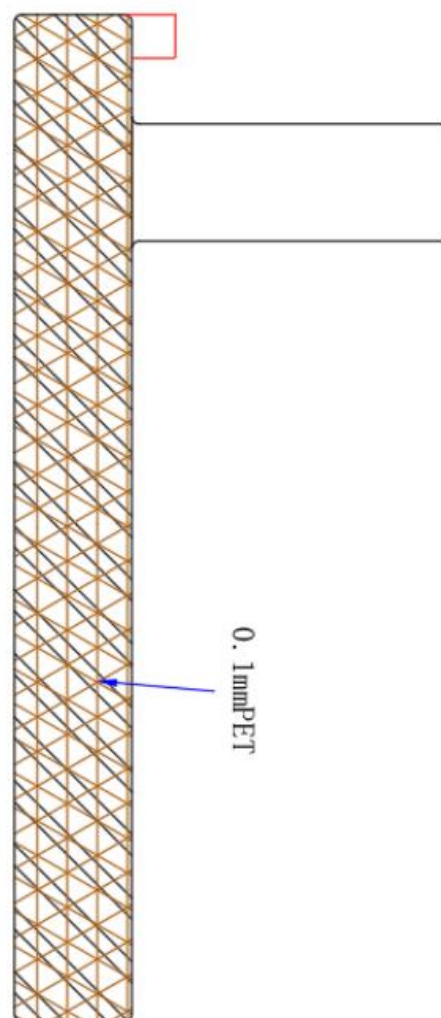
Antenna Type: FPC

Antenna Brand: Bogesi

Antenna Model: XGD-EF930-MAIN-V01



Front view



Back view

(b) Antenna Gain

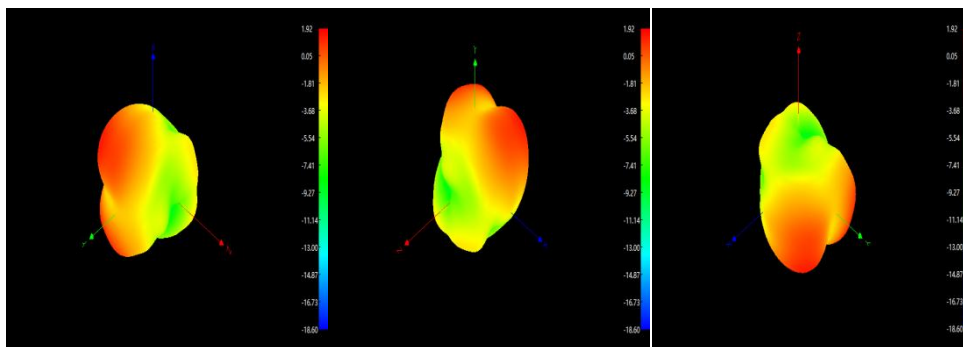
Freq (MHz)	Gain (dBi)
700	-0.71
710	-0.63
720	-0.41
730	-0.09
740	-0.27
750	-1.94
760	-1.83
770	-1.75
780	-1.33
790	-0.7
800	0
810	0.98
820	1.92
830	1.65
840	1.89
850	1.9
860	1.97
870	2
880	1.77
890	1.48
900	1.33
910	1.15
920	1.08
930	0.98
940	0.67
950	0.31
960	-0.27

Freq (MHz)	Gain (dBi)
1700	4.21
1720	3.2
1740	3.91
1760	4.12
1780	4.31
1800	4.37
1820	4.1
1840	4.4
1860	3.63
1880	3.75
1900	4.49
1920	4.26
1940	4.81
1960	4.33
1980	4.48
2000	4.25
2020	4.31
2040	4.09
2060	4.22
2080	4.05
2100	4.49
2120	4.24
2140	4.86
2160	4.51
2180	4.76
2200	4.41
2300	3.37
2320	3.66
2340	3.85
2360	3.87
2380	3.83

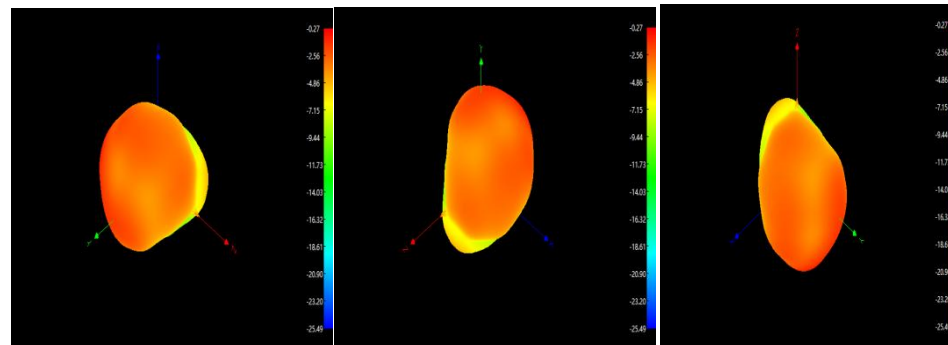
Freq (MHz)	Gain (dBi)
2400	3.25
2420	3.82
2440	3.21
2460	3.24
2480	3.49
2500	3.41
2520	2.48
2540	2.14
2560	1.58
2580	1.79
2600	0.71
2620	-0.96
2640	-1.06
2660	-0.56
2680	-0.18
2700	0

(c) Directional diagram

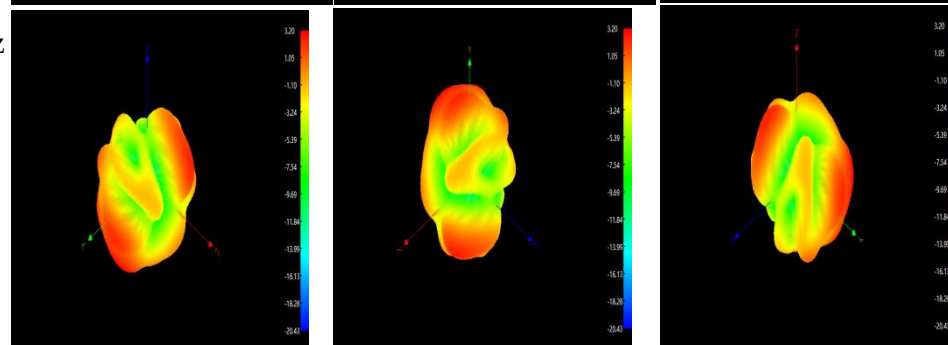
820MHz



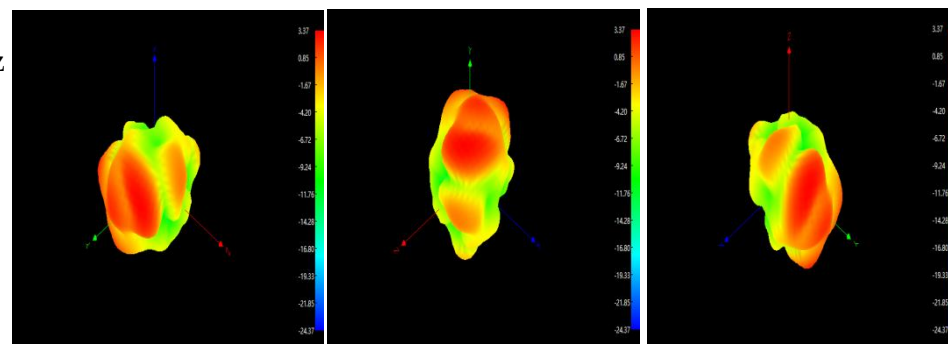
960MHz



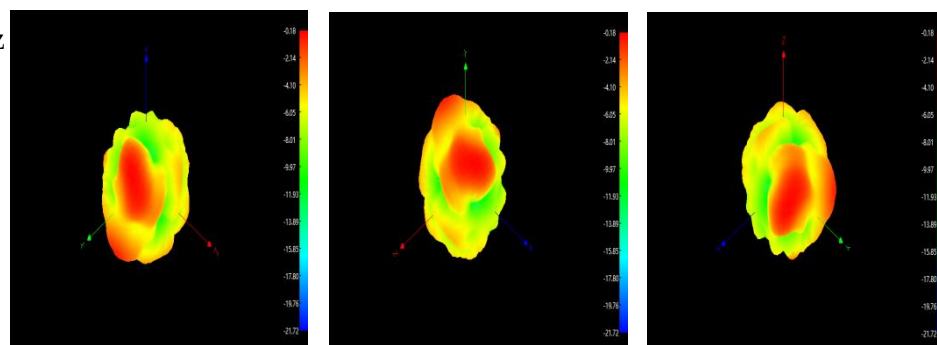
1720MHz



2300MHz



2680MHz



(a) GNSS antenna information

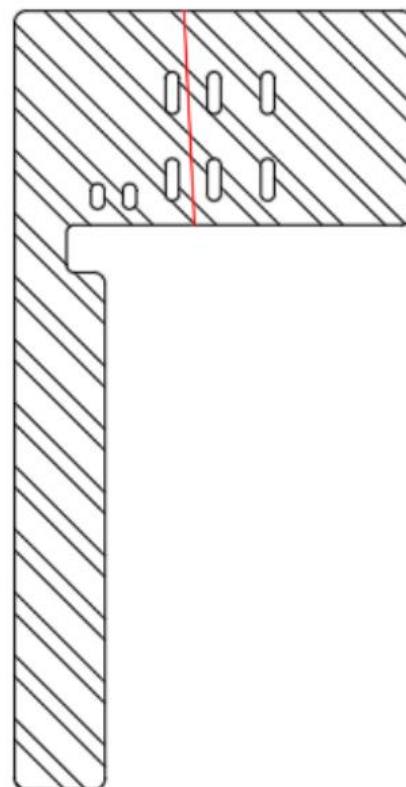
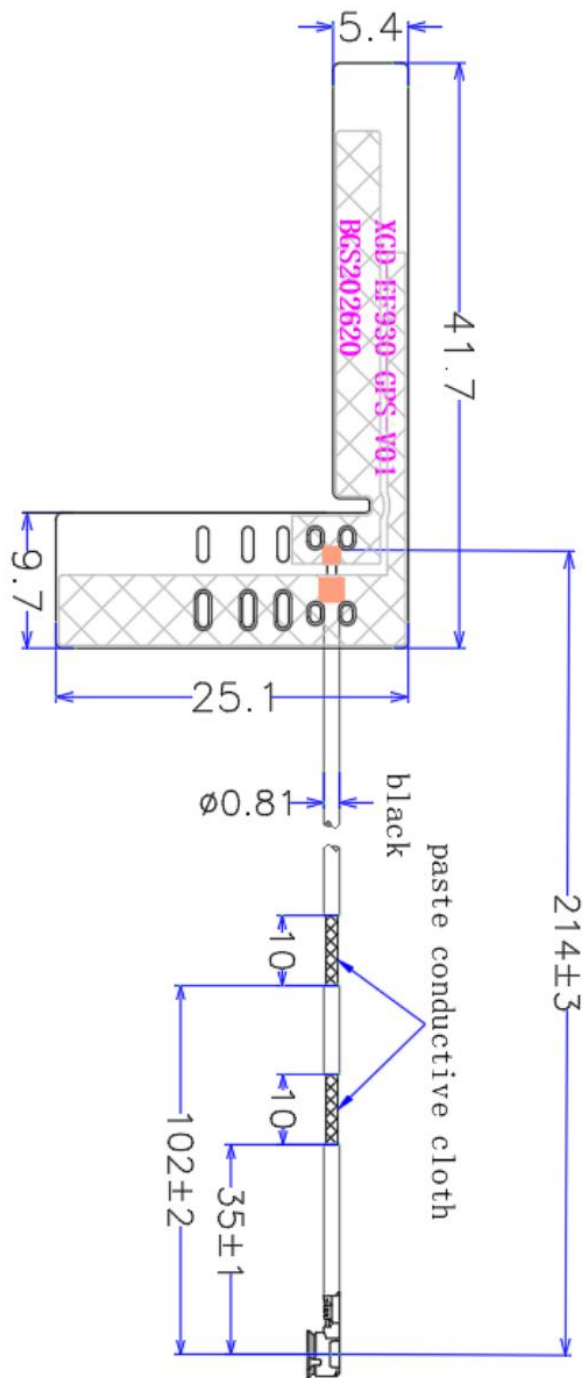
Manufacturer: Shenzhen Bogesi Communication Technology Co.,Ltd.

Address: Room 308, Building B, Sabenol Building, No.19, Kejizhong 1st Road, Nanshan District, Shenzhen, Guangdong, China.

Antenna Type: FPC

Antenna Brand: Bogesi

Antenna Model: XGD-EF930-GPS-V01

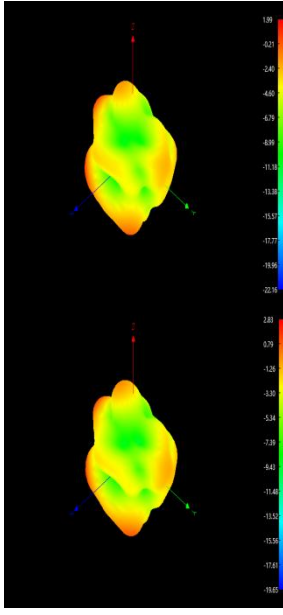
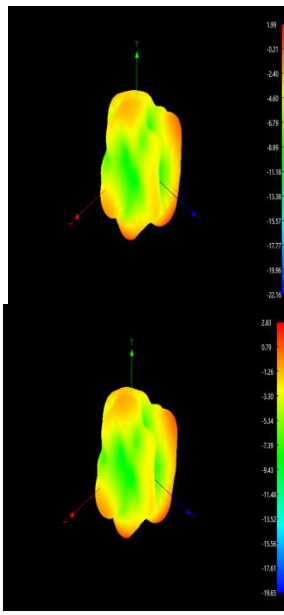
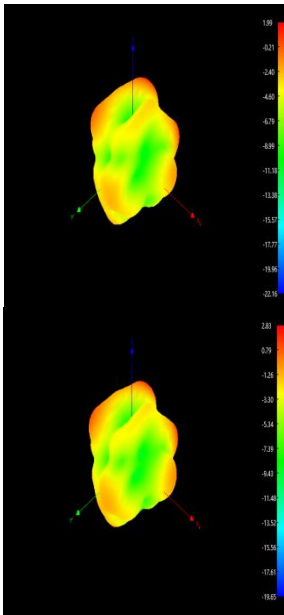


(b)Antenna Gain

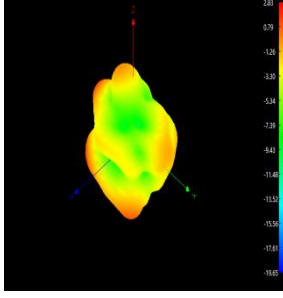
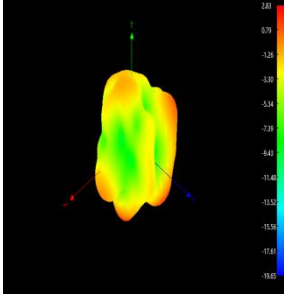
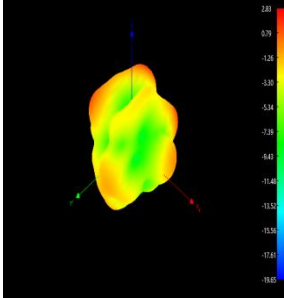
Freq (MHz)	Gain (dBi)
1560	2.07
1561	1.99
1562	1.98
1563	2.05
1564	2.16
1565	2.26
1570	2.41
1571	2.57
1572	2.70
1573	2.77
1574	2.81
1575	2.83
1576	2.80
1577	2.78
1578	2.76
1579	2.72
1580	2.71
1595	3.55
1596	3.57
1597	3.56
1598	3.52
1599	3.48
1600	3.49
1601	3.51
1602	3.63
1603	3.79
1604	3.44
1605	3.53

(c) Directional diagram

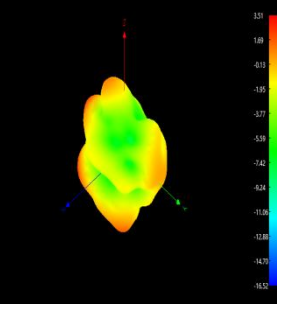
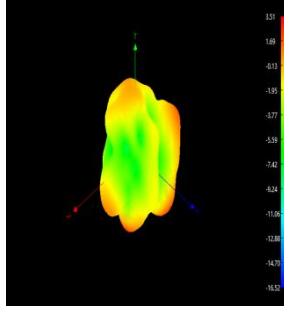
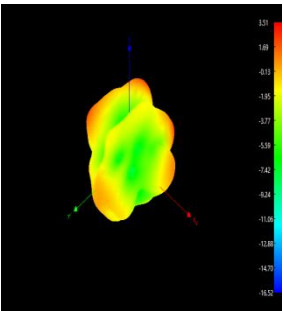
1561MHz



1575MHz



1602MHz



(a) WiFi/BT antenna information

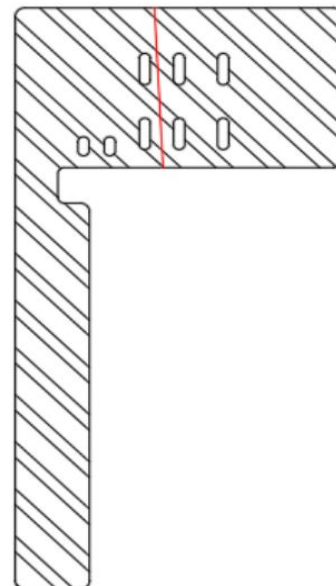
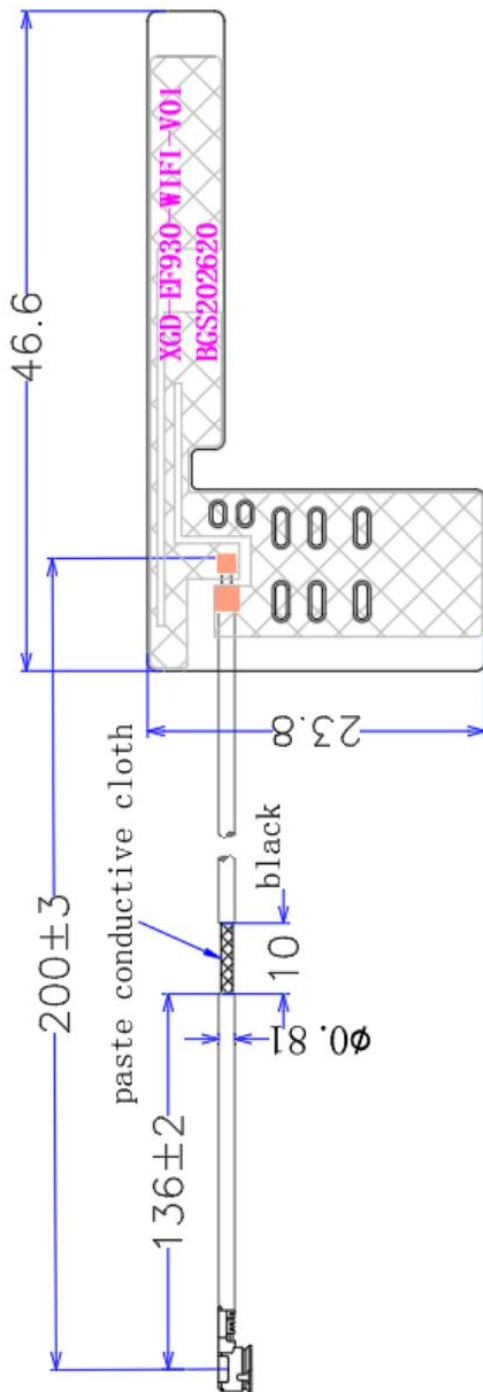
Manufacturer: Shenzhen Bogesi Communication Technology Co.,Ltd.

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Antenna Type: FPC

Antenna Brand: Bogesi

Antenna Model: XGD-EF930-WIFI-V01



(b)Antenna Gain

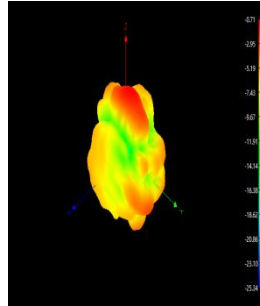
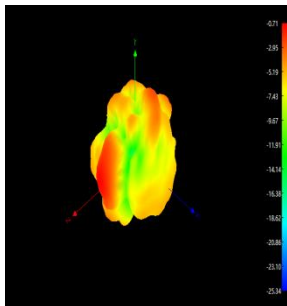
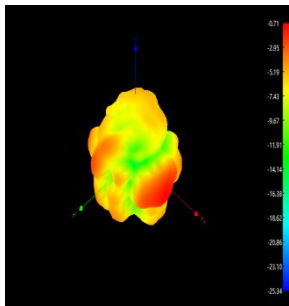
Freq (MHz)	Gain (dBi)
2400	-0.71
2410	-1.01
2420	-1.8
2430	-1.87
2440	-1.12
2450	-0.93
2460	-0.67
2470	0.04
2480	0.39
2490	0.15
2500	-0.19

Freq (MHz)	Gain (dBi)
5160	-0.3
5180	-0.35
5200	-0.66
5220	-0.94
5240	-1.32
5260	0.04
5280	0.63
5300	0.15
5320	0.34
5340	0.97
5360	1.16
5380	1.42
5400	0.92
5420	0.66
5440	0.62
5460	0.54
5480	0.45
5500	0.62
5520	0.38
5540	0
5560	0.58
5580	0.57
5600	0.47
5620	-0.11
5640	0.53
5660	0.83
5680	1.23
5700	2.25
5720	3.07
5740	2.98
5760	2.92
5780	2.7

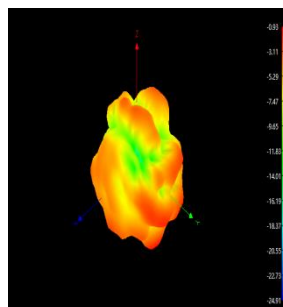
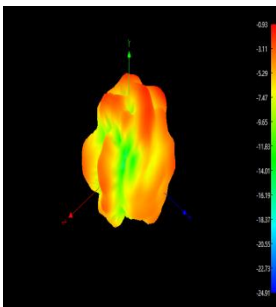
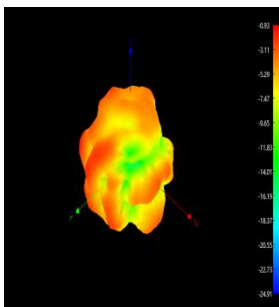
Freq (MHz)	Gain (dBi)
5800	2.6
5820	2.75
5840	3.06
5860	2.84

(c) Directional diagram

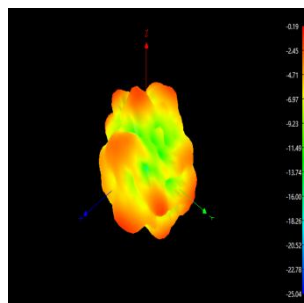
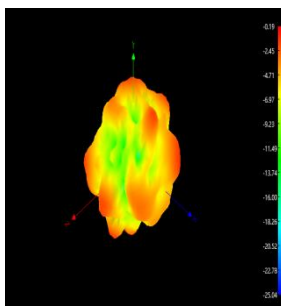
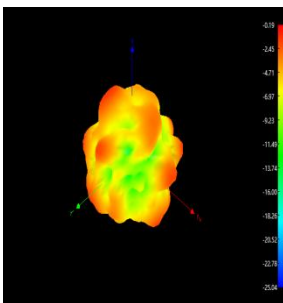
2400MHz



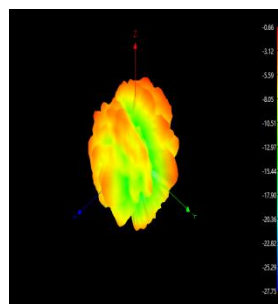
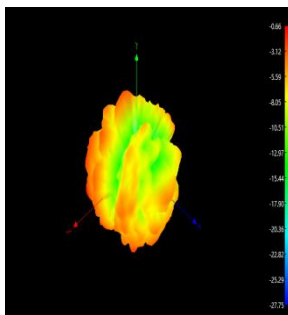
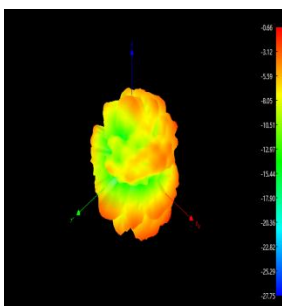
2450MHz



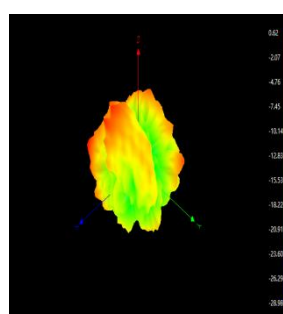
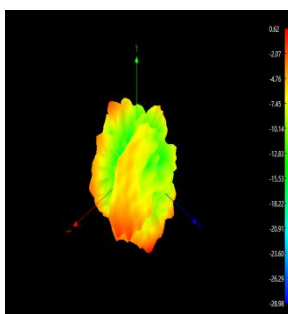
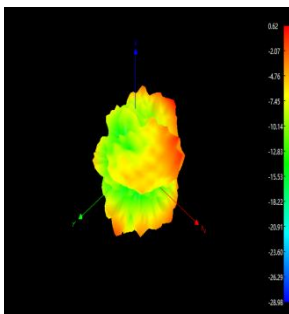
2500MHz



5200MHZ



5500MHZ



5800MHZ

