

Antenna Test Report

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1: Power and sensitivity testing

1.1 Test data

Model: S6599				Antenna : FPC						Unit: dBm		
Channel	GSM850			GSM900			DCS1800			PCS1900		
	CH128	CH192	CH251	CH1	CH62	CH124	CH512	CH698	CH885	CH512	CH661	CH810
TRP	25.12	25.22	25.33	26.45	27.23	27.26	25.36	25.85	25.12	25.52	25.12	24.85
TIS			-102.42			-102.18			-103.43			-103.45
Channel				WCDMA-1900			WCDMA-850					
				CH9663	CH9800	CH9938	CH4357	CH4408	CH4458			
TRP				18.12	18.33	18.21	16.13	16.16	16.12			
TIS						-104.14			-103.17			

Channel	LTE-FDD-B2			LTE-FDD-B4			LTE-FDD-B5			LTE-FDD-B7		
	CH18650	CH18900	CH19150	CH2000	CH20175	CH20350	CH20450	CH20525	CH20600	CH20800	CH21100	CH21400
TRP	18.36	18.25	18.75	18.26	18.36	18.52	17.36	17.12	17.25	18.26	17.57	17.42
TIS			-92.43			-92.56			-91.36			-91.25
Channel	LTE-FDD-B28A			LTE-FDD-B28B			LTE-TDD-B38					
	CH27260	CH27370	CH27469	CH27410	CH27510	CH27600	CH37850	CH38000	CH38150			
TRP	16.12	17.24	17.11	17.14	17.24	16.42	17.48	17.36	17.25			
TIS			-91.12			-89.74			-91.12			

2.GPS/WIFI/BT

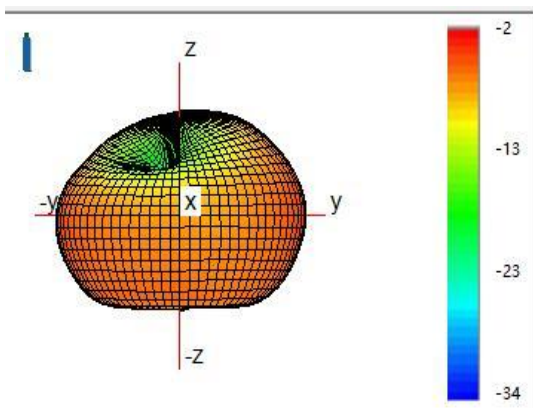
GPS	Maximum signal strength	Number of received stars	Average positioning time (s)	Weather conditions
	42	12	90-120	Sunny
WIFI	Normal internet distance (m)		Smooth distance for online browsing (m)	
	12-15		10-12	
BT	Clear call distance (m)			
	10-12			
WIFI/BT frequency range		2400-2500MHz		



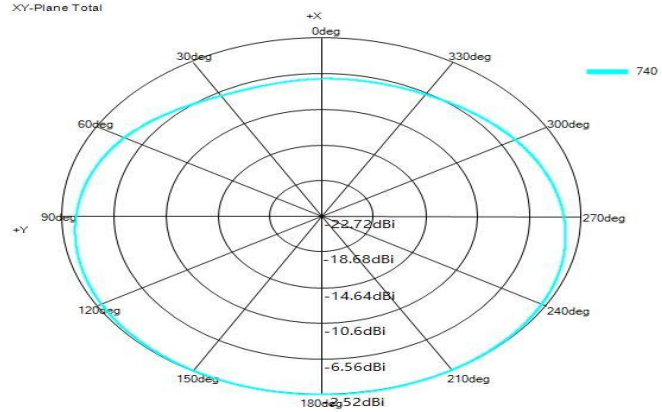
3. Antenna gain

Band	GAIN(dBi)	Band	GAIN(dBi)
GSM850	-1.6	LTE-B28A/B	-2.5
EGSM900	-1.45	LTE-B38	0.4
DCS1800	1	GPS	1.3
PCS1900	1.2	WIFI	-0.96
W-Band2	1.2	BT	-0.96
W-Band5	-1.6		
LTE-B2	1.2		
LTE-B4	0.15		
LTE-B5	-1.6		
LTE-B7	-2.04		

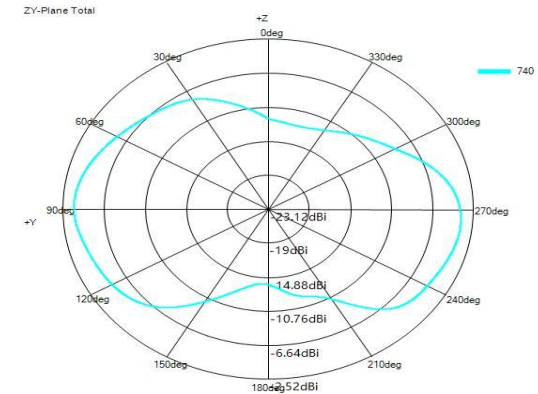
700M



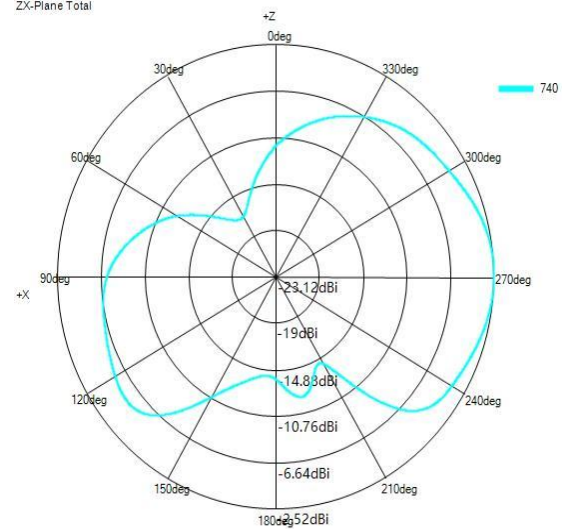
XY-Plane Total

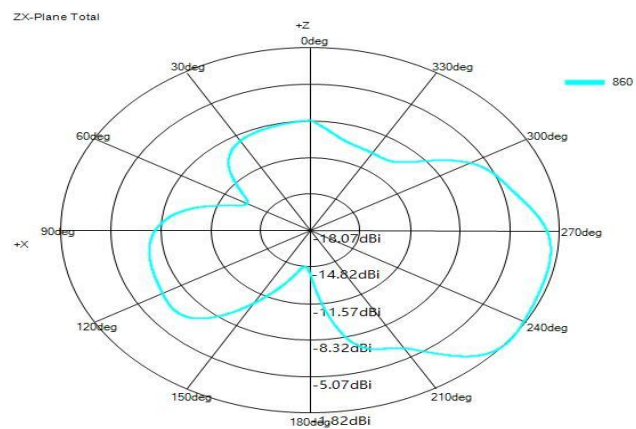
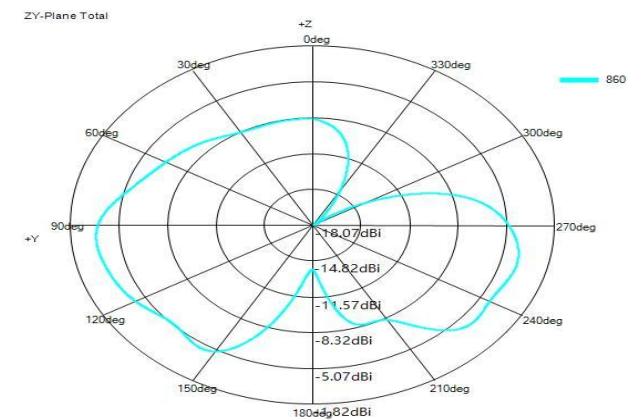
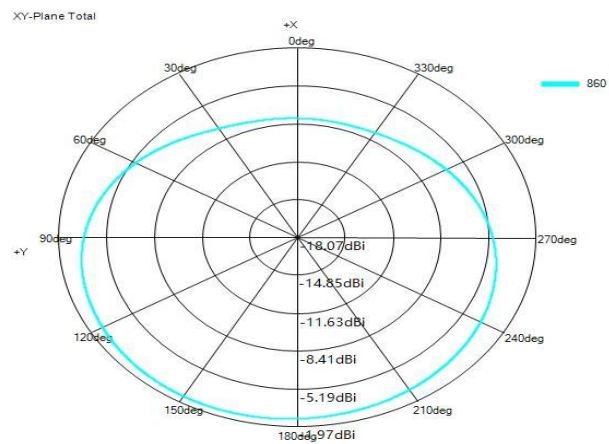
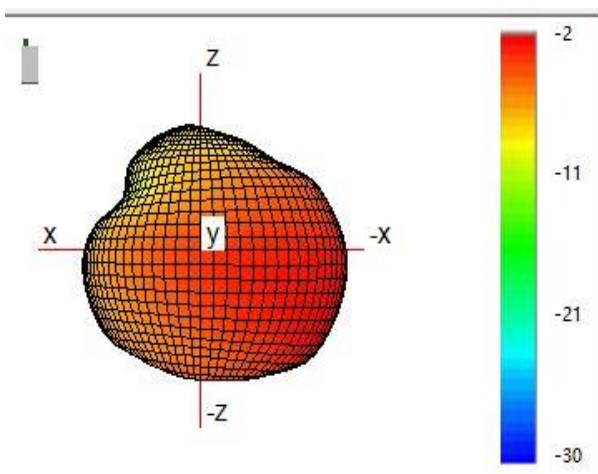


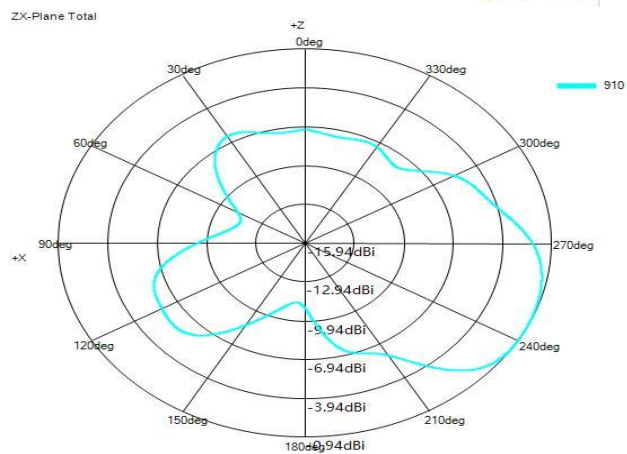
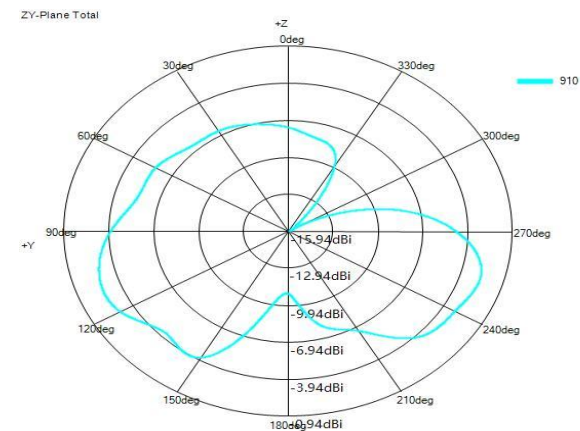
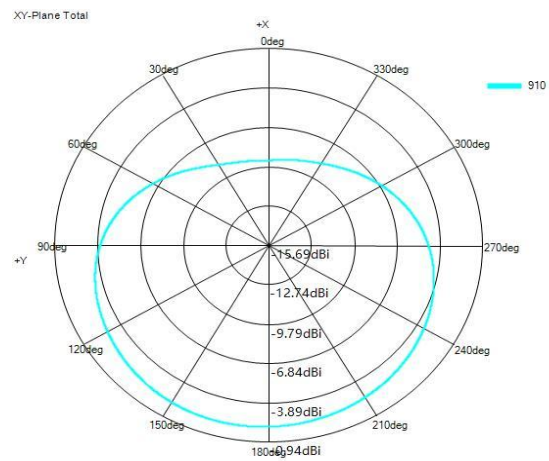
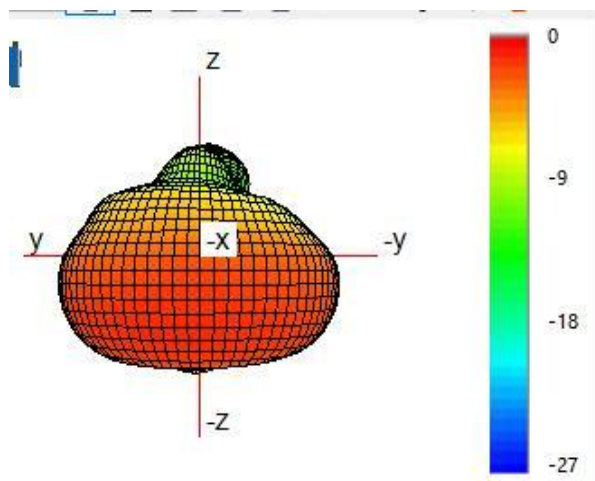
ZY-Plane Total



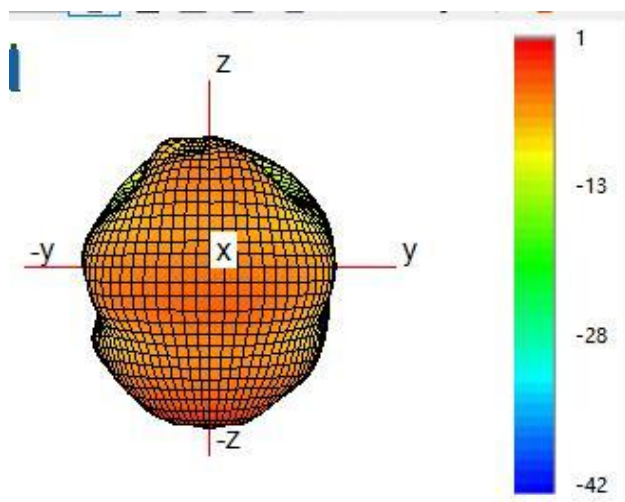
ZX-Plane Total



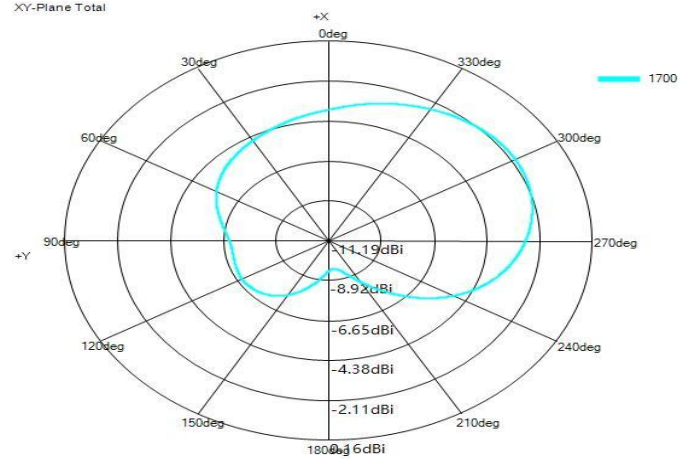




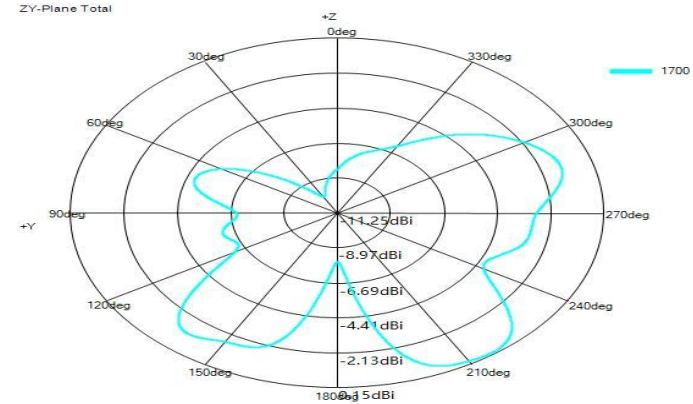
1700M



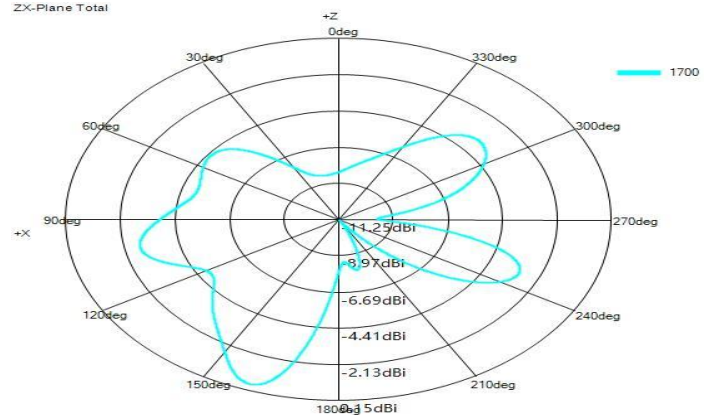
XY-Plane Total



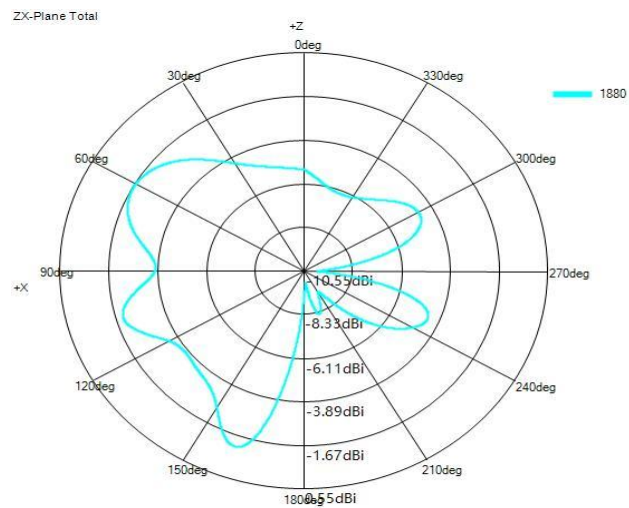
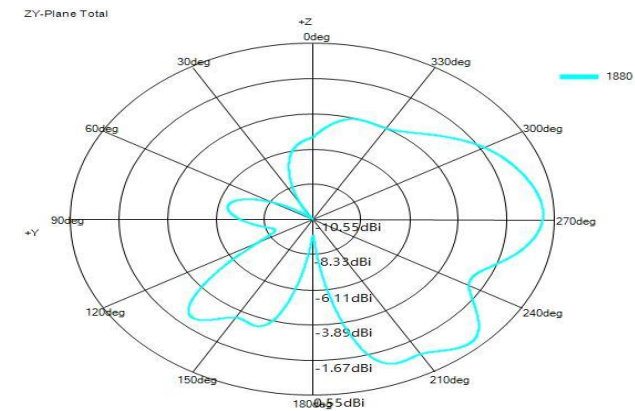
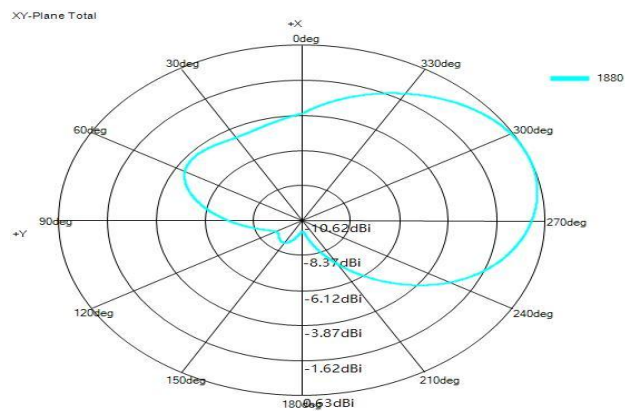
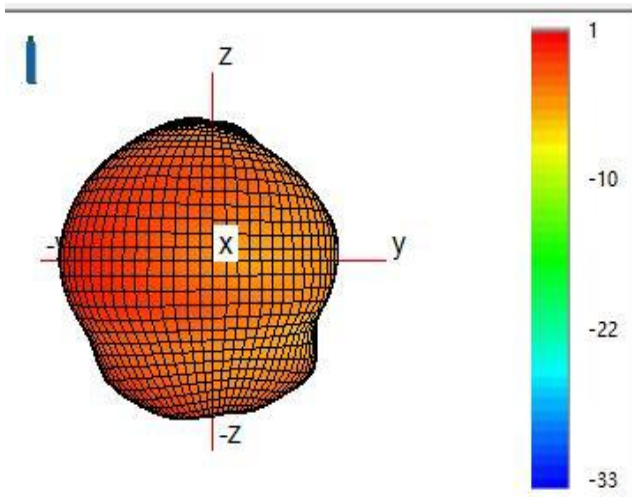
ZY-Plane Total



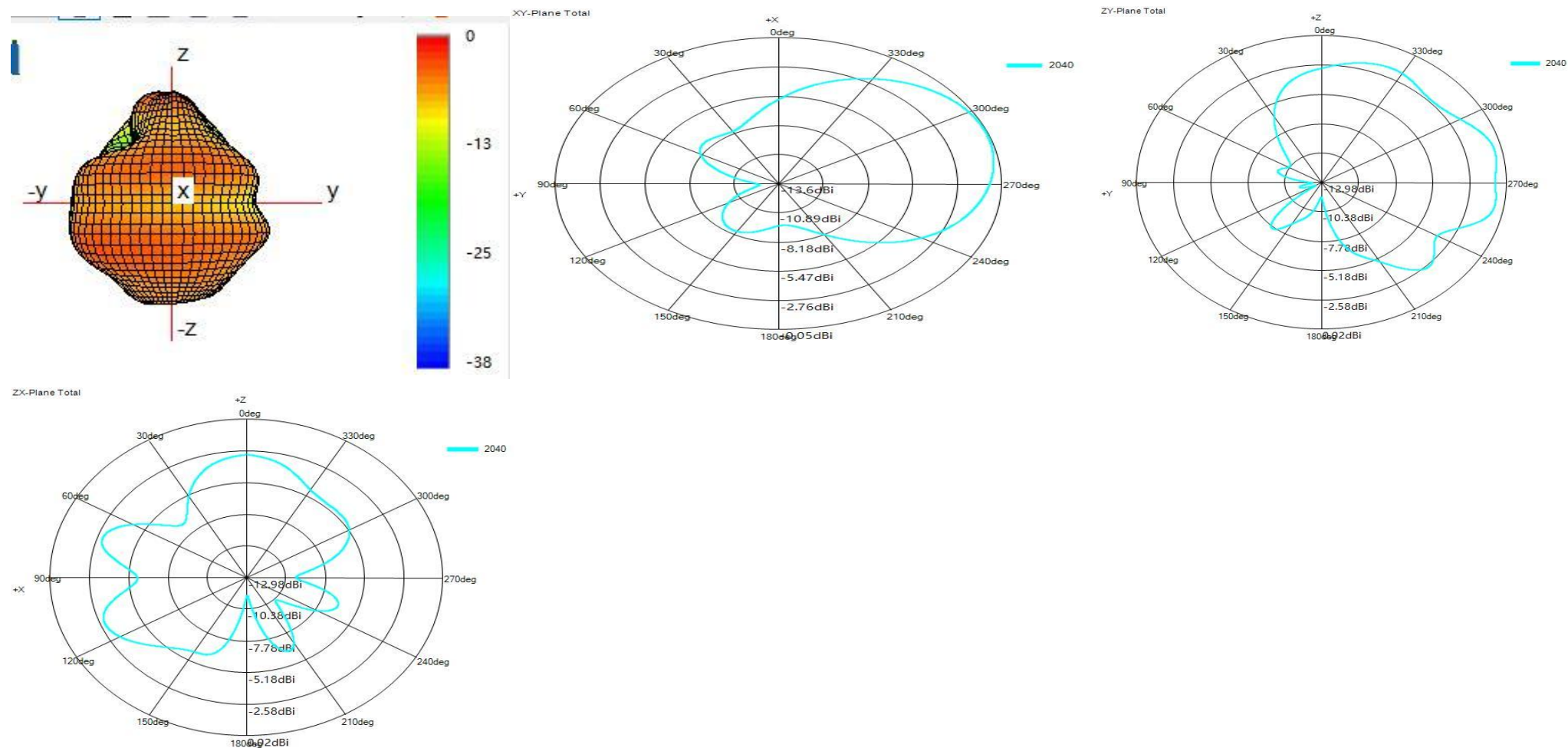
ZX-Plane Total



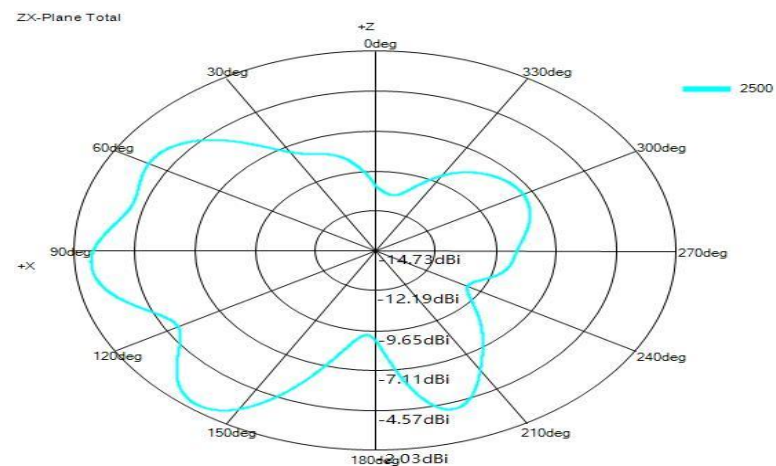
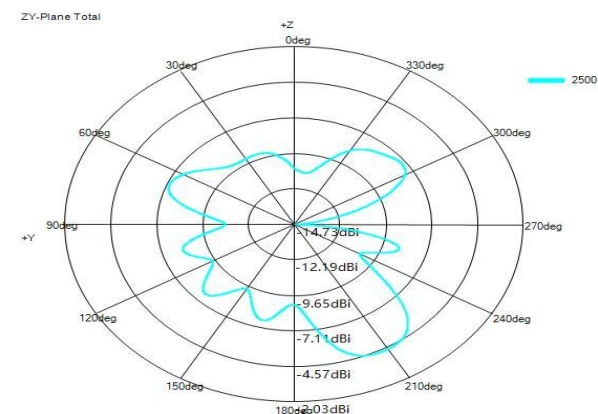
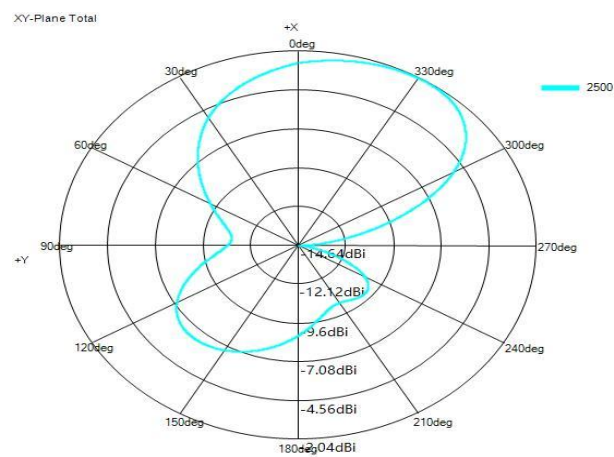
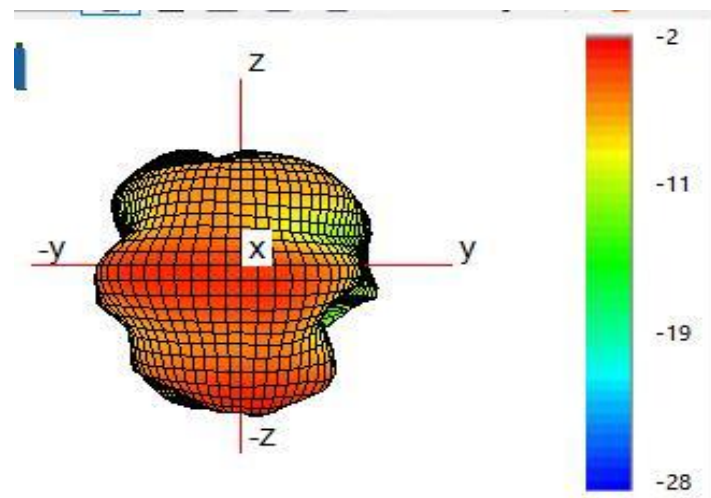
1800M



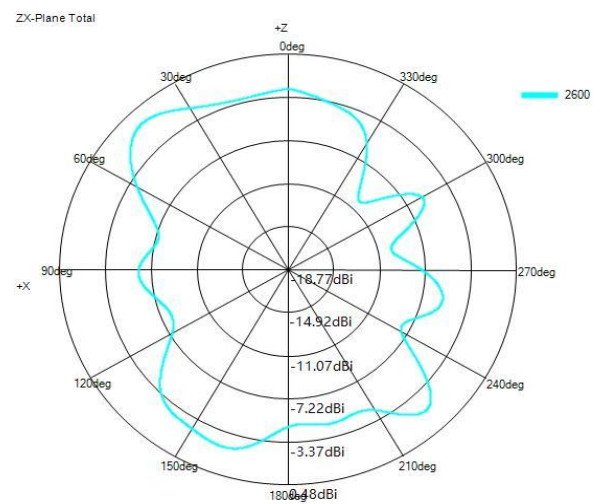
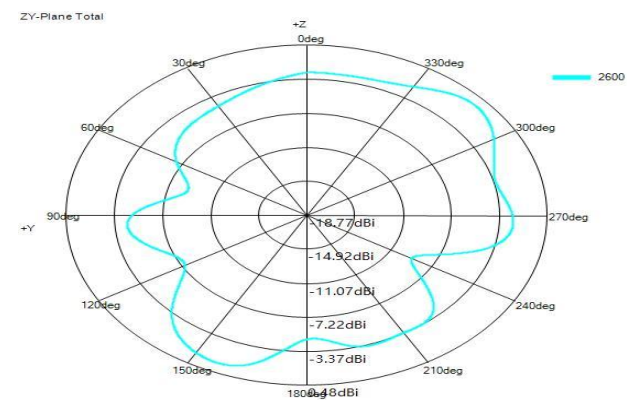
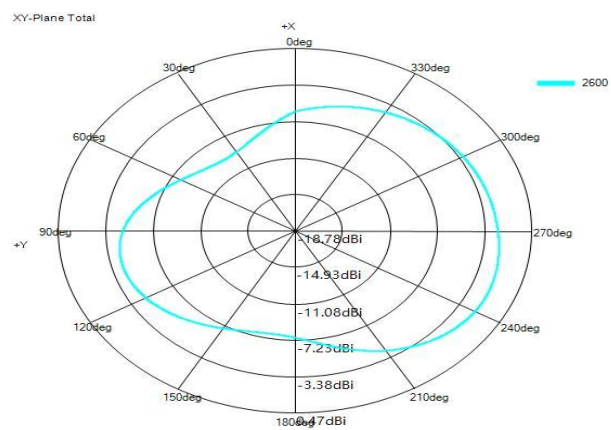
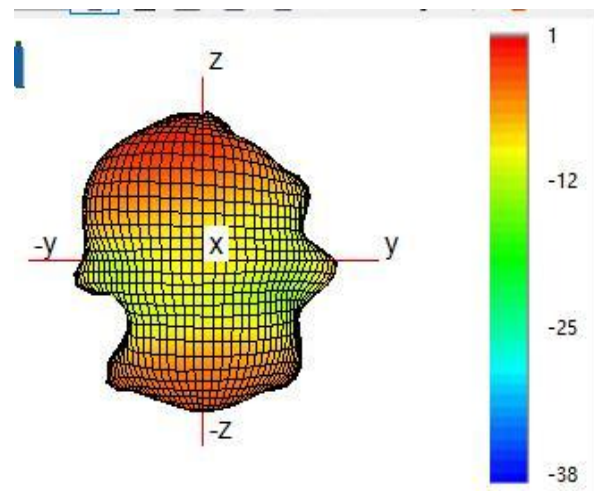
2000M

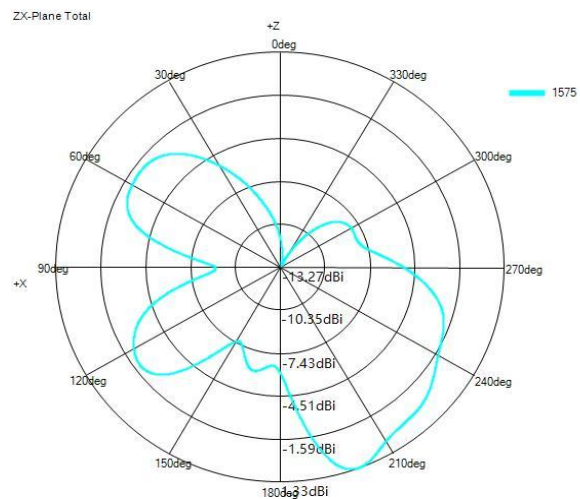
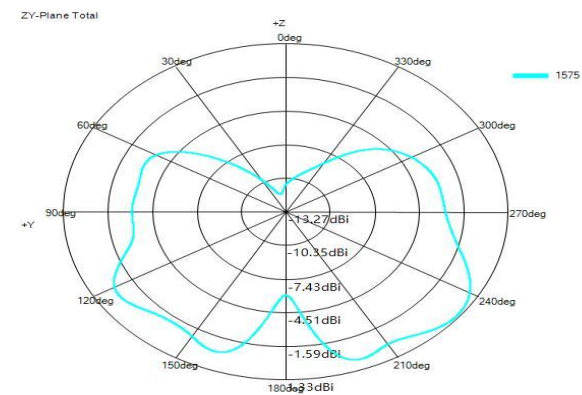
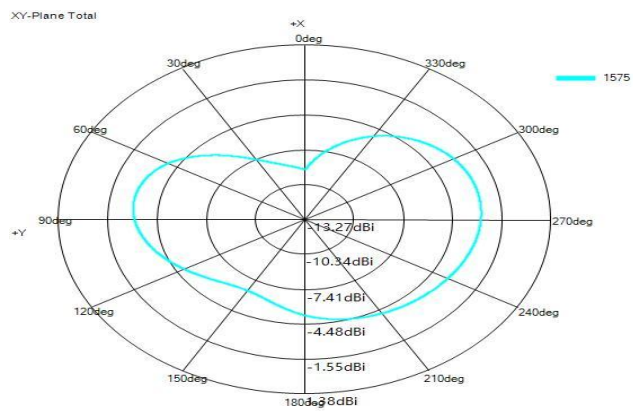
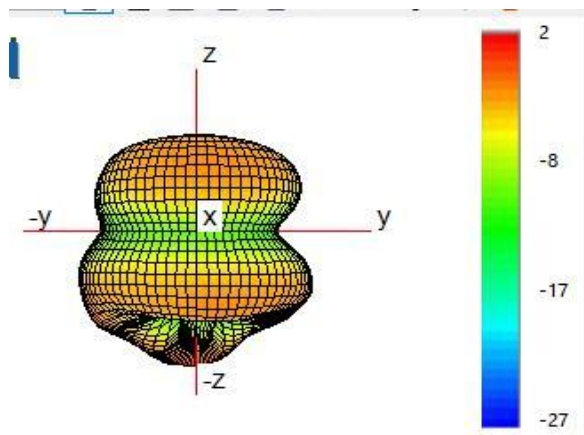


2500M

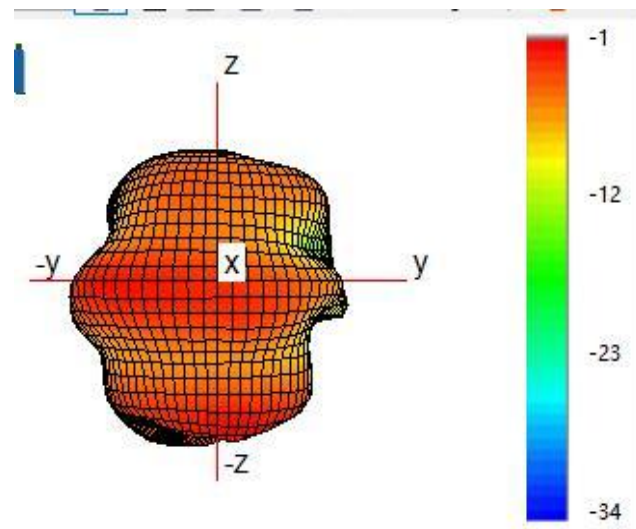


2600M

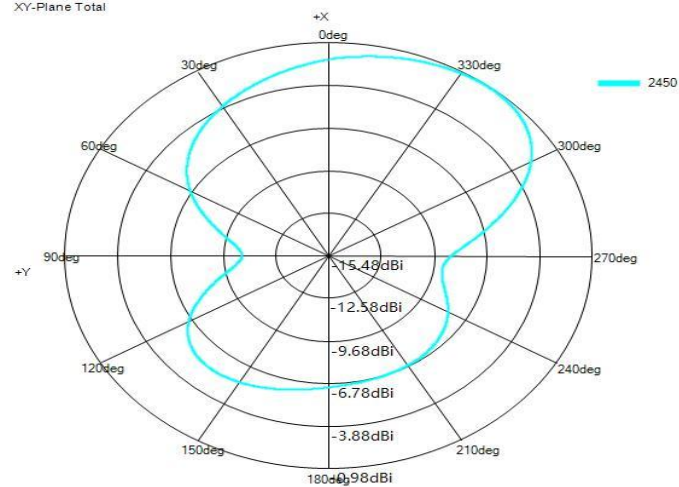




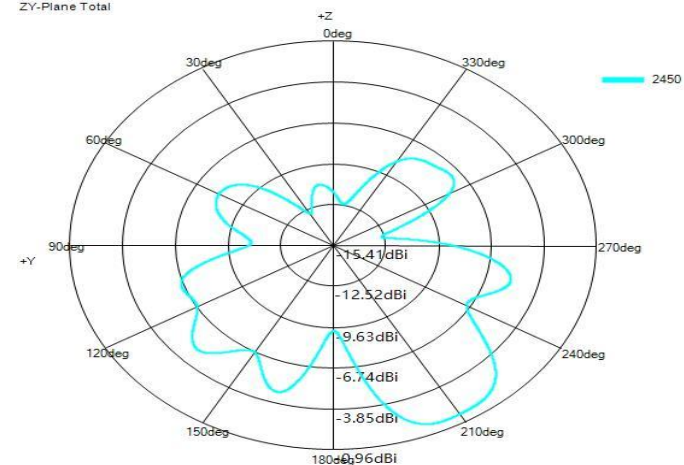
WIFI/BT 2450M



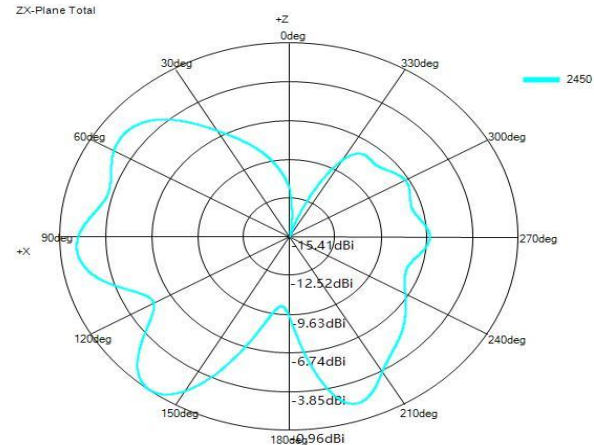
XY-Plane Total



ZY-Plane Total



ZX-Plane Total



4. Structural drawings (unit:mm)

