



深圳市浩天诚无线科技有限公司
SHENZHEN HAOTIAN CHENG WIRELESS TECHNOLOGY CO.,LTD.

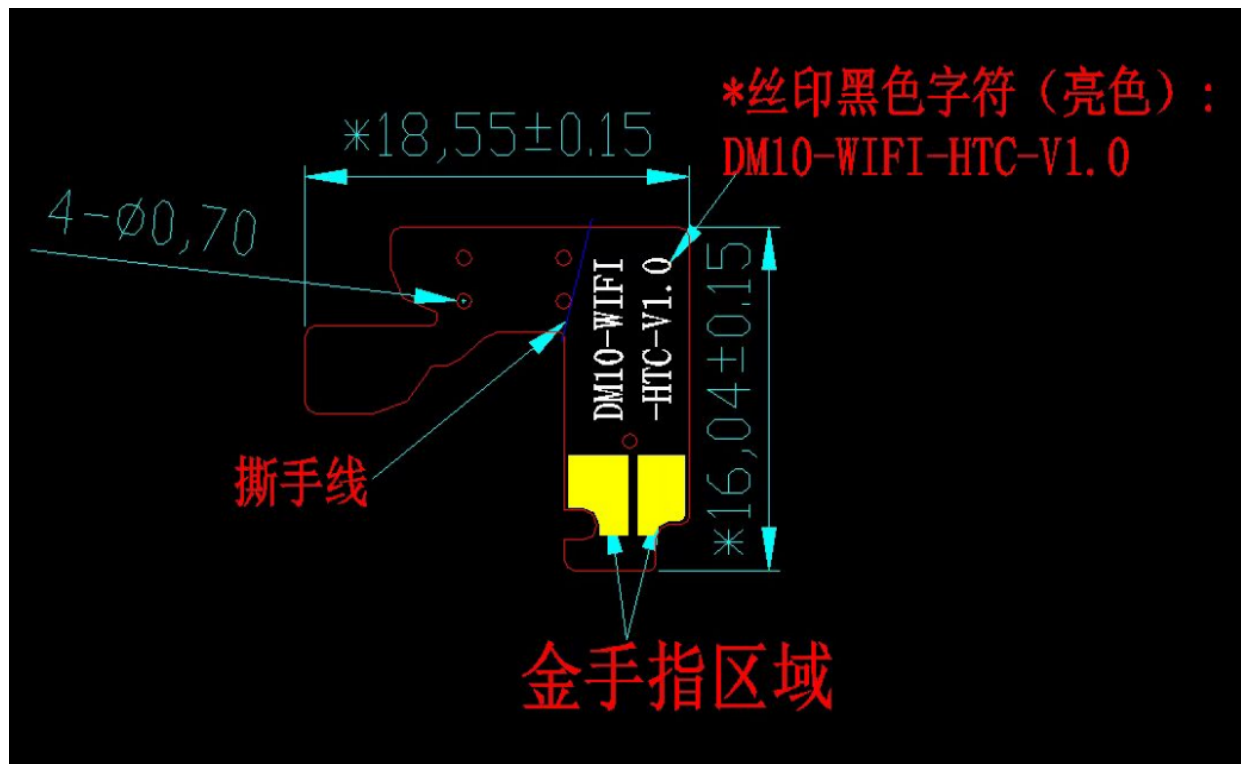
Antenna Report

Client	Shenzhen DUOWEI ZHILIAN TECHNOLOGY CO., LIMITED		
Project	DM10		
Band	GSM+WCDMA+LTE+WIFI/BT		
Version	Date		
V1.0	2025-3-12		

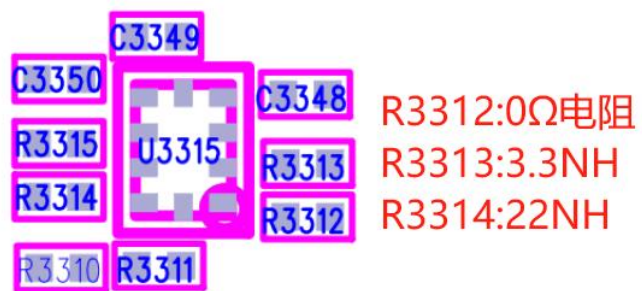
Catalogue

- ☞ I. Antenna Size
- ☞ II. Circuit and Switching logic
- ☞ III. LTE Antenna Data
- ☞ IV. WIFI/BT Antenna Data
- ☞ V. Pattern

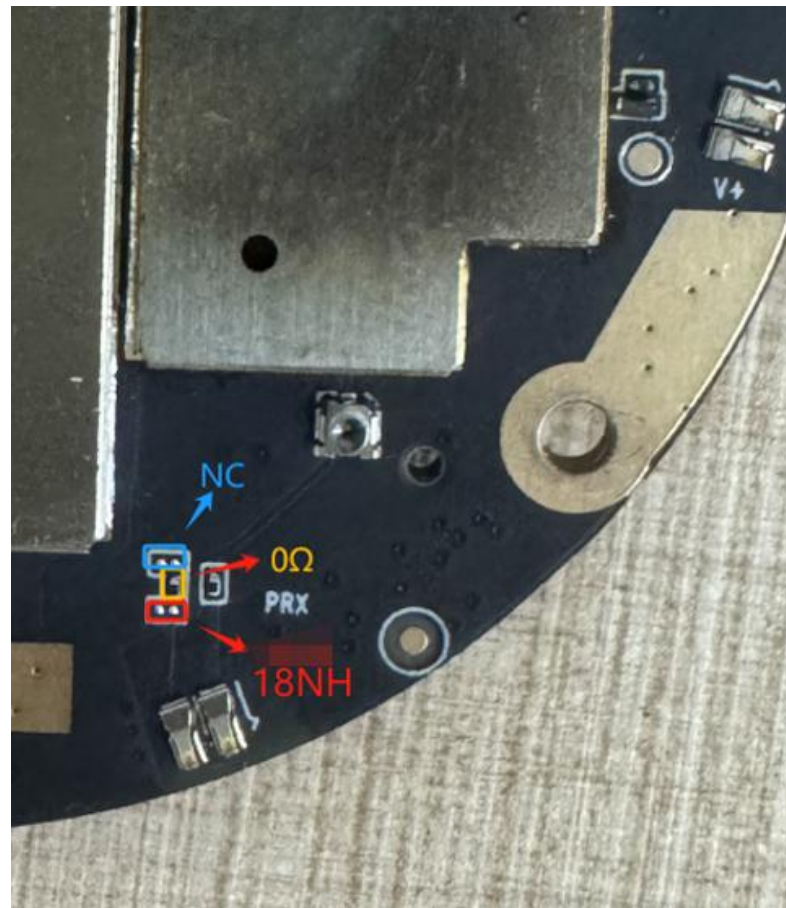
I Antenna Size



II Circuit



R3312:0Ω电阻
R3313:3.3NH
R3314:22NH



II Switching logic

Switching logic	Control Bands
RF1(0Ω)	GSM-900/1800 WCDMA-2100/1900/1700/900 LTE-B1/B2/B3/B4/B7/B8/B25/B34/B38/B39/B40/B41/B66
RF2(3.3NH)	GSM-850 WCDMA-850 LTE-B5/B26
RF3(22NH)	LTE-B12/B13/B14/B17/B28

III LTE Antenna Data

Band	TRP/TIS	L	M	H	Band	TRP/TIS	L	M	H
GSM850	TRP	25.46	25.63	25.74	DCS1800	TRP	25.13	24.85	24.72
	TIS			-102.26		TIS			-102.58
GSM900	TRP	25.63	26.17	26.21	PCS1900	TRP	24.56	24.68	25.45
	TIS			-102.19		TIS			-102.22
WCDMA-B1	TRP	18.24	18.17	17.65	LTE-B7	TRP	18.46	18.21	17.92
	TIS			-104.535		TIS			-90.45
WCDMA-B2	TRP	18.35	18.24	17.88	LTE-B8	TRP	15.36	15.76	16.14
	TIS			-105.12		TIS			-91.27
WCDMA-B4	TRP	18.06	18.15	18.27	LTE-B25	TRP	18.14	18.28	18.47
	TIS			-104.59		TIS			-91.52
WCDMA-B5	TRP	15.17	15.29	15.35	LTE-B26	TRP	15.16	15.34	15.75
	TIS			-104.27		TIS			-90.54
WCDMA-B8	TRP	15.50	15.81	16.38	LTE-B34	TRP	18.65	18.43	18.34
	TIS			-104.45		TIS			-91.53
LTE-B1	TRP	18.35	18.26	17.64	LTE-B38	TRP	18.76	18.43	17.58
	TIS			-92.57		TIS			-90.42
LTE-B2	TRP	18.24	18.14	17.83	LTE-B39	TRP	18.75	18.50	18.48
	TIS			-91.56		TIS			-92.63
LTE-B3	TRP	18.35	18.45	18.56	LTE-B40	TRP	18.98	18.45	18.02
	TIS			-90.15		TIS			-89.56
LTE-B4	TRP	18.02	18.25	18.38	LTE-B41	TRP	18.34	18.25	17.83
	TIS			-91.36		TIS			-90.42
LTE-B5	TRP	15.26	15.35	15.46	LTE-B66	TRP	18.11	18.20	18.38
	TIS			-90.28		TIS			-90.56

Band	TRP/TIS	L	M	H
LTE-B12	TRP	15. 10	15. 24	15. 76
	TIS			-90. 65
LTE-B13	TRP		16. 23	
	TIS		-90. 32	
LTE-B14	TRP		16. 75	
	TIS		-90. 25	
LTE-B17	TRP	15. 12	15. 20	15. 34
	TIS			-90. 42
LTE-B28	TRP	15. 14	15. 23	15. 67
	TIS			-90. 58

IV

WIFI Antenna Data

Frequency	Efficiency	Efficiency
2400	-1.31	73.96
2410	-1.44	71.78
2420	-1.29	74.3
2430	-1.44	71.78
2440	-1.33	73.62
2450	-1.4	72.44
2460	-1.36	73.11
2470	-1.29	74.3
2480	-1.54	70.15
2490	-1.34	73.45
2500	-1.76	66.68
5150	-3.32	46.56
5200	-3.12	48.75
5250	-3.45	45.19
5300	-3.65	43.15
5350	-3.66	43.05
5400	-3.71	42.56
5450	-3.79	41.78
5500	-3.72	42.46
5550	-3.21	47.75
5600	-3.02	49.89
5650	-3.18	48.08
5700	-3.35	46.24
5750	-3.53	44.36
5800	-3.64	43.25
5850	-3.64	43.25

Frequency	MaxGain/d	AvgGain/d
2400	5.34	-1.31
2410	5.32	-1.44
2420	5.5	-1.29
2430	5.37	-1.44
2440	5.09	-1.33
2450	5.07	-1.4
2460	5.35	-1.36
2470	5.45	0
2480	5.29	-1.54
2490	5.34	-1.34
2500	5.07	-1.76
5150	3.17	-3.32
5200	2.91	-3.12
5250	2.59	-3.45
5300	2.37	0
5350	2.52	-3.66
5400	2.86	-3.71
5450	2.1	-3.79
5500	1.94	-3.72
5550	2.78	-3.21
5600	3.18	-3.02
5650	2.78	-3.18
5700	3.39	-3.35
5750	3.23	0
5800	2.74	-3.64
5850	2.62	-3.64

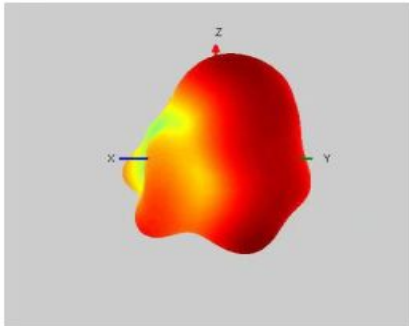
IV BT Antenna Data

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-9.884	10.269	-3.487
2410	-9.807	10.453	-3.319
2420	-9.731	10.637	-3.241
2430	-9.468	11.301	-3.055
2440	-9.275	11.814	0.0
2450	-9.169	12.106	-2.815
2460	-9.142	12.183	-2.722
2470	-9.112	12.266	-2.545
2480	-8.803	13.170	-2.240
2490	-8.736	13.375	-2.207
2500	-8.715	13.442	-2.336

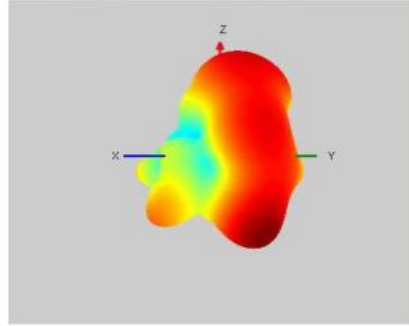
V. Pattern

Radiation Pattern 3D

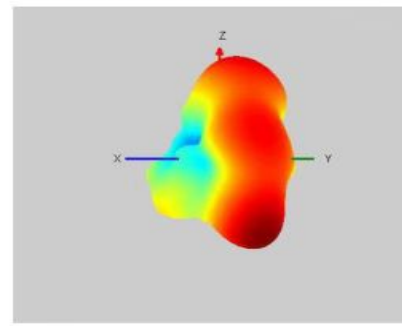
2402MHZ

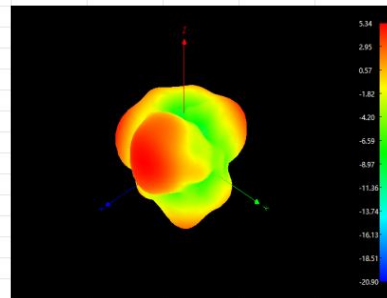
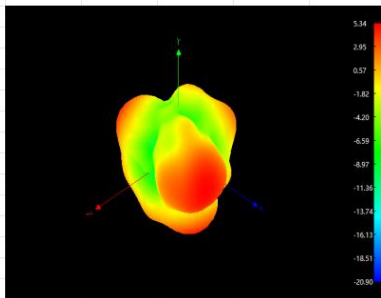
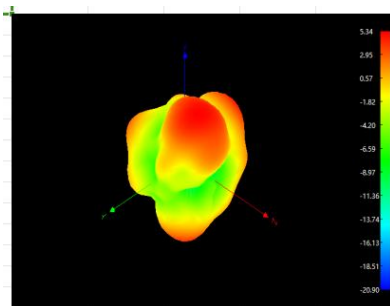


2441MHZ

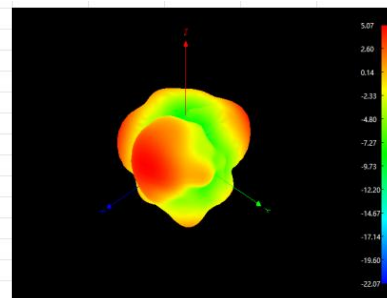
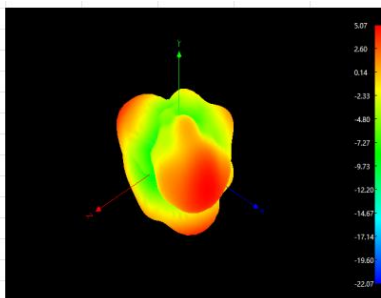
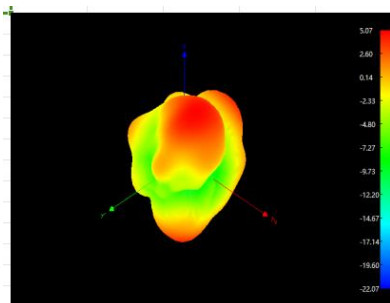


2483MHZ

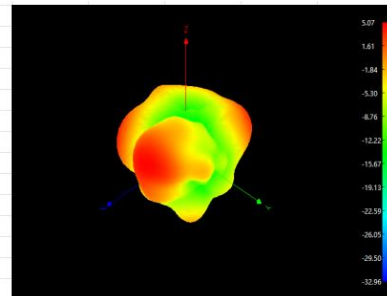
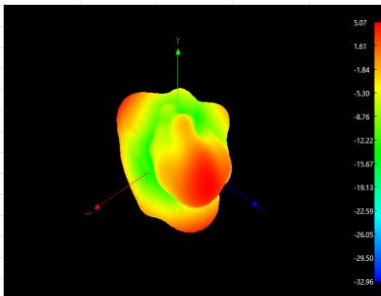
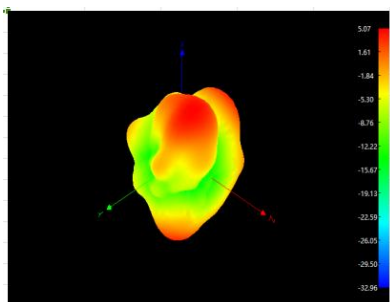




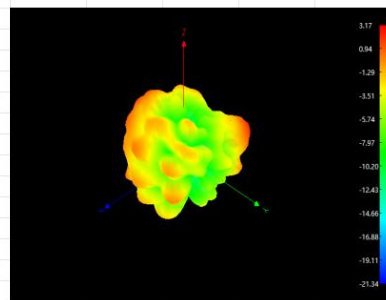
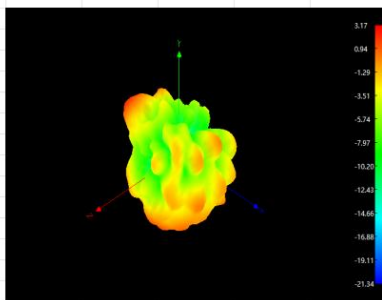
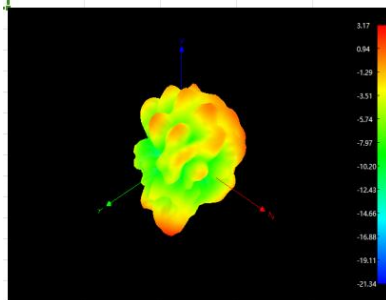
2400MHZ



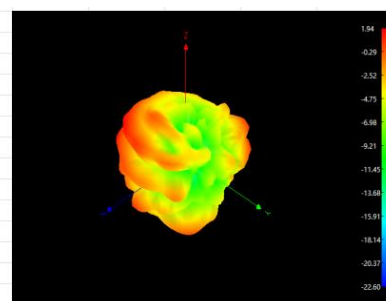
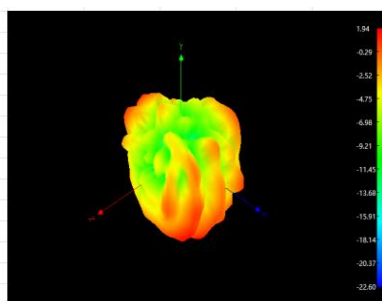
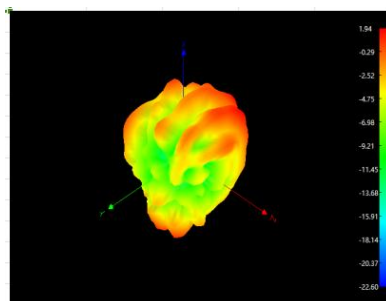
2450MHZ



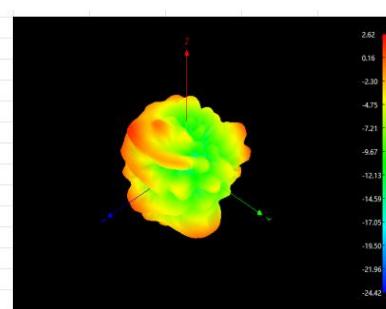
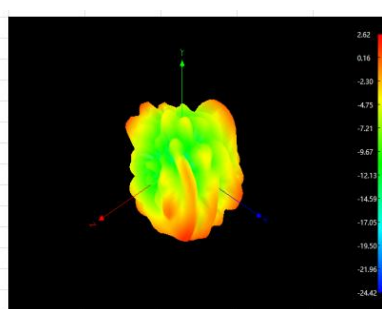
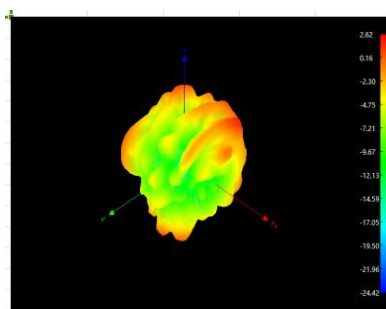
2500MHZ



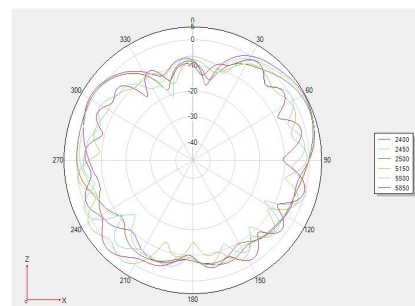
5150MHZ



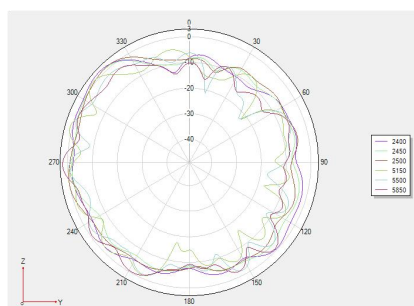
5500MHZ



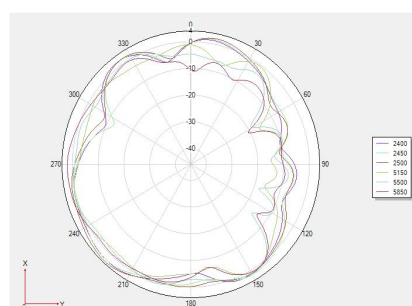
5850MHZ



Z-X



Z-Y



X-Y