

specification

Customer : 昊一源

Customer P/N:

Part Name: DIRECT CONNECTED EXTERNAL
ANTENNA

HJ P/N: 3D0203BK02-003

Spec Description : 2dBi DUAL FREQUENCY
ANTENNA,CD379 BLACK,
RG178+RP-SMA PLUG,OD:10*L108mm

Prepared Date: 2023/8/19

Signature			
Customer		Supplier	
Confirmed by		Prepared by	S.He
Approved by		Checked by	何修明
		Approved by	刘福勇

东莞市皇捷通讯科技有限公司

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REVISION	DESCRIPTION	DATE	DRAFTER
A0	FIRST ISSUE	19.11.21	Mark

P/N : 3D0203BK02-003

DESCRIPTION : 2dBi DUAL FREQUENCY ANTENNA,CD379 BLACK,RG178+RP-SMA
N : PLUG,OD:10*L108mm



ELECTRICAL PERFORMANCE

1	NOMINAL IMPEDANCE :	50Ω
2	FREQUENCY RANGE :	2.4~2.5GHz; 5.15~5.85GHz
3	VSWR :	2.0 MAX.
4	GAIN :	2dBi
5	POLARIZATION MODE :	VERTICAL
6	RADIATION DIRECTION :	OMNIDIRECTIONAL

MECHANICAL PROPERTIES

1	ANTENNA SIZE :	OD10*108mm
2	ANTENNA HOUSING :	TPEE,BLACK
2	ANTENNA CONNECTOR :	RP-SMA PLUG

ENVIRONMENTAL SPECIFICATION

1	OPERATION TEMPERATURE :	-40C° 至 +60C°
2	CORROSION :	SALT WATER DENSITY:(5±1)%,TEMPERATUR:(35±3)°C,48HRS.
3	STORAGE ENVIRONMENT:	TEMPERATURE: -40C° ~ +85C°; HUMIDITY: 20% ~ 75%
4	MEMORY CYCLE :	AT LEAST 6 MONTHS IF CONDITIONS ARE MET.
5	ENVIRONMENTAL :	RoHS COMPLIANT.

DURABILITY SPECIFICATION

1	DURABILITY :	RP-SMA PLUG: 500 CYCLES
2	SERVICE LIFE :	UNDER THE ABOVE ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL PERFORMANCE CONDITIONS, THE SERVICE LIFE IS 10 YEARS

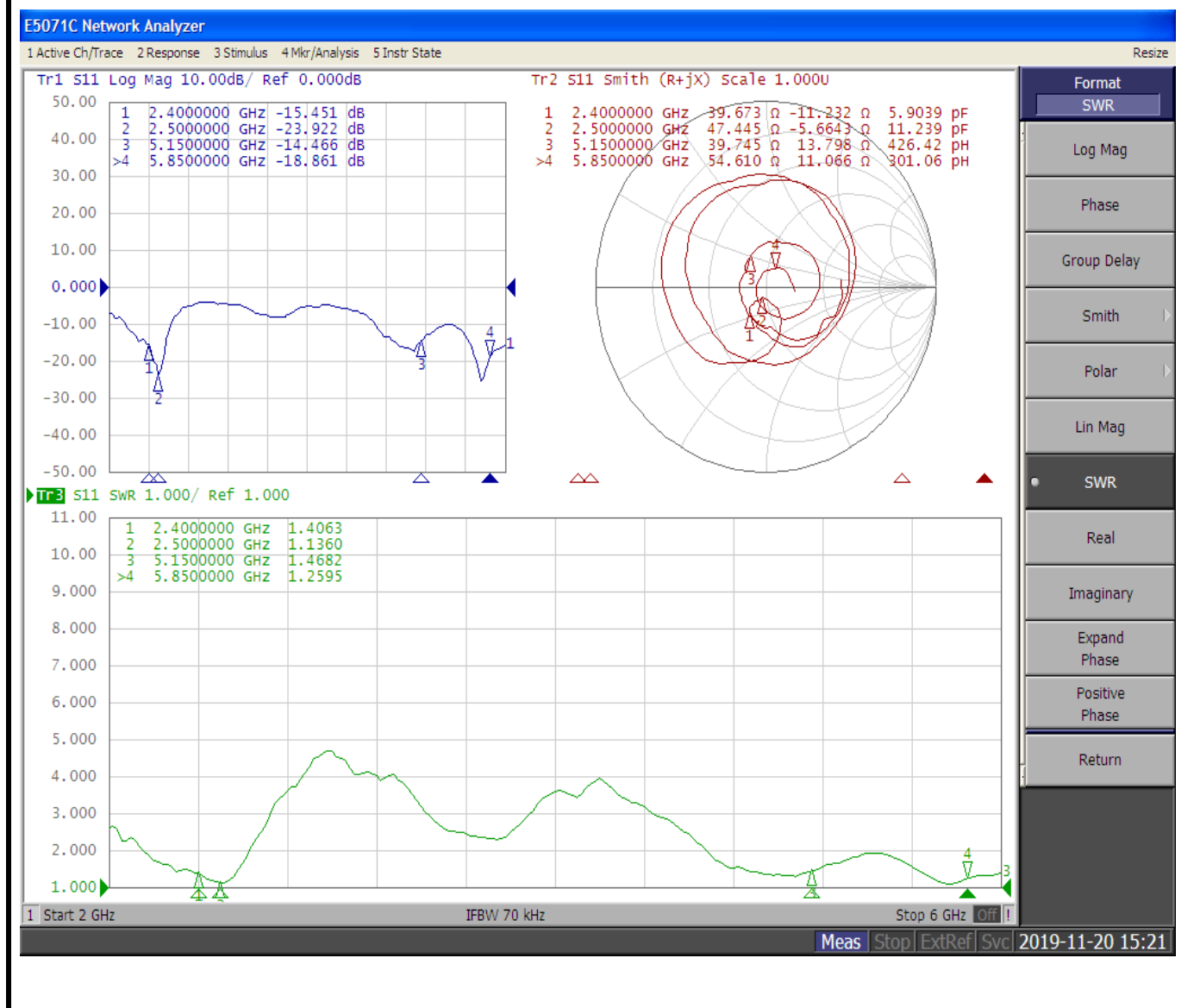


Antenna Electrical Characteristic Test Report

Doc No:HJ-QR-Q-22 Rev:A0

Part Number:	3D0203BK02-003	Item	Judge
Part Name:	DIRECT CONNECTED EXTERNAL ANTENNA L=108mm	VSWR ≤ 2.0	PASS
Test Equipment	Network analyzer	Gain (dBi)>1.5dBi	PASS
Test Date	11. 21		

Antenna test data



Checker: WANGJUN

Tester:

Mark

P/N:

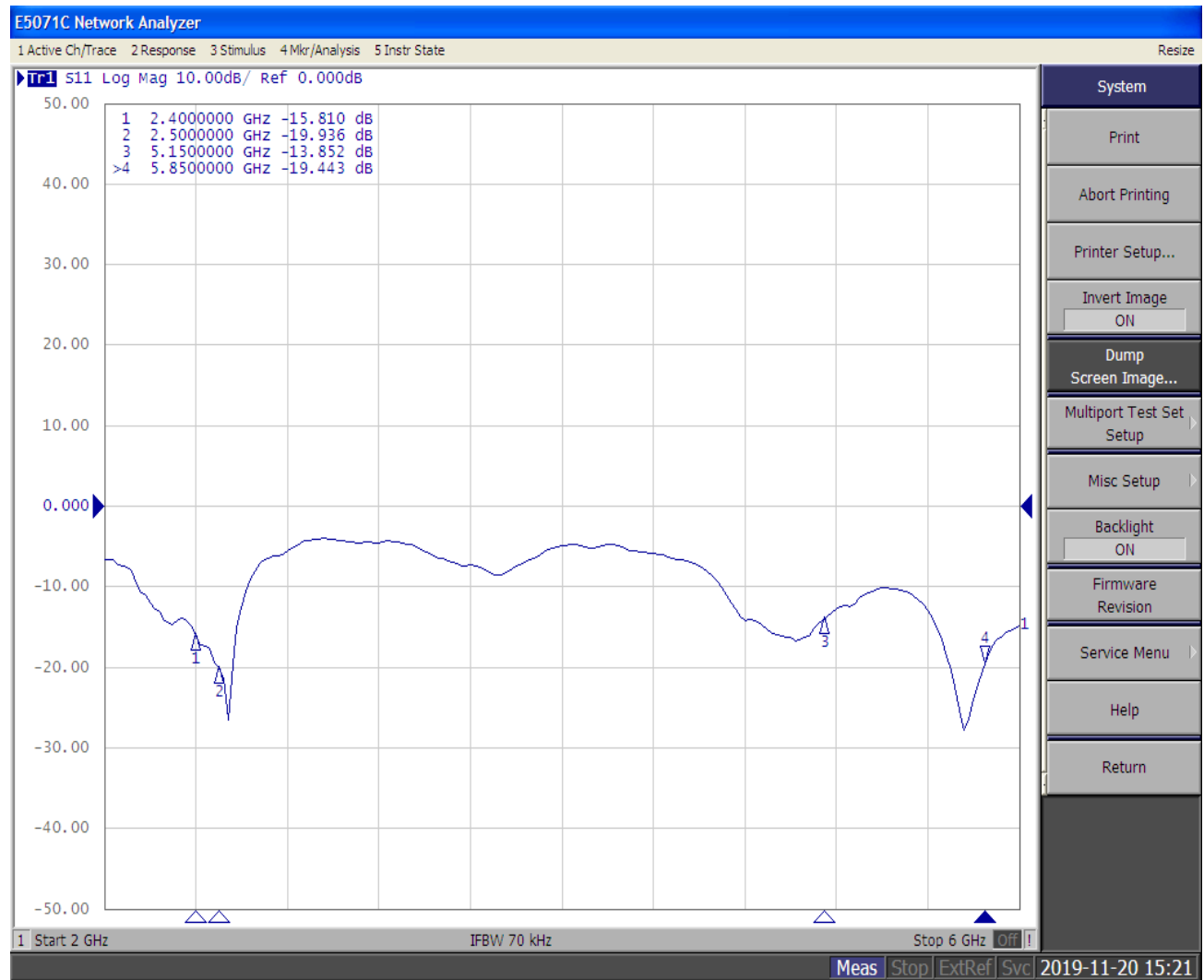
3D0203BK02-003

Part Name

DIRECT CONNECTED EXTERNAL ANTENNA

Antenna test data

S11



Checker: WANGJUN

Tester: Mark

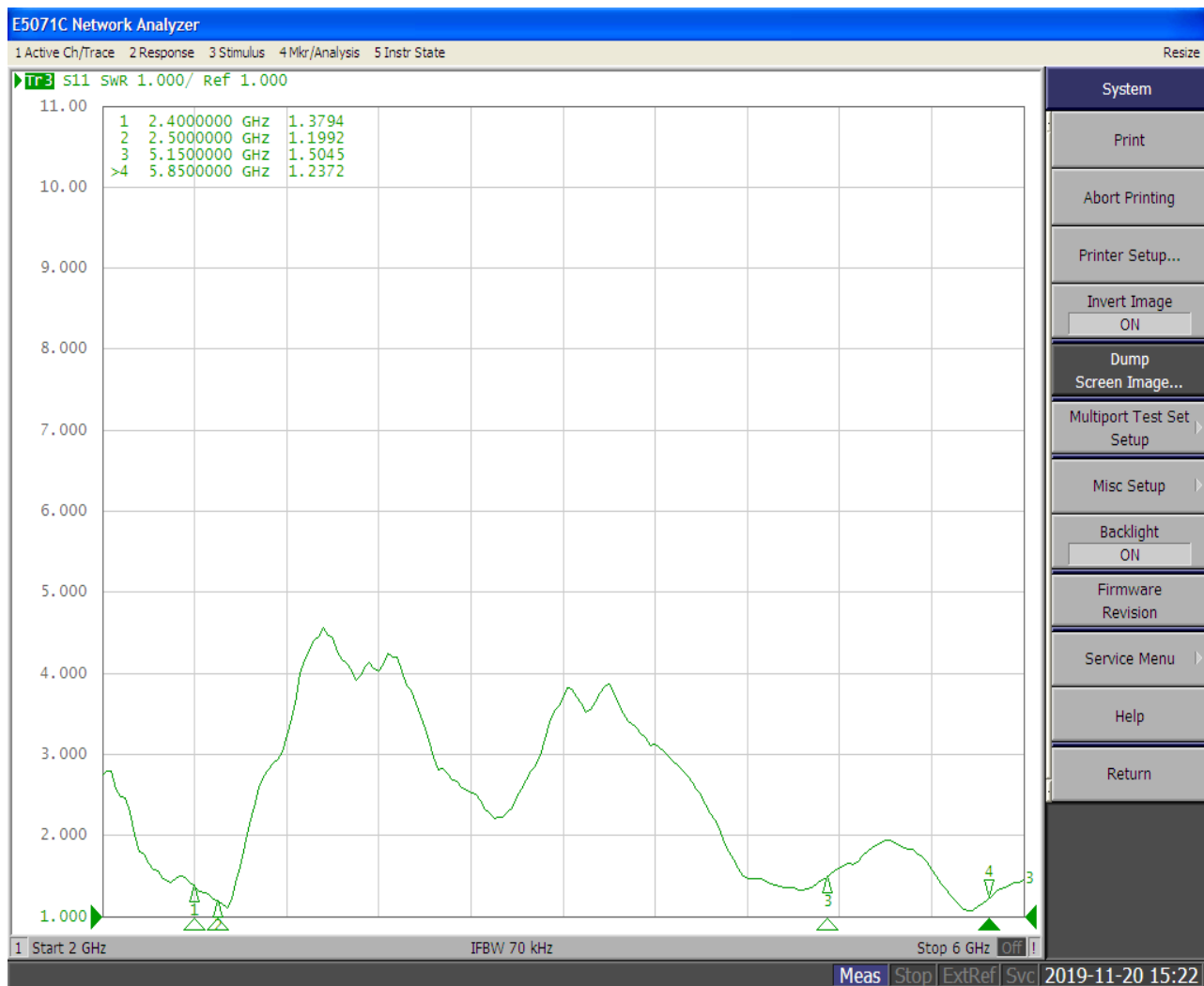
产品料号

3D0203BK02-003

产品名称

DIRECT CONNECTED EXTERNAL ANTENNA

Antenna test data



Checker: WANGJUN

Tester: Mark

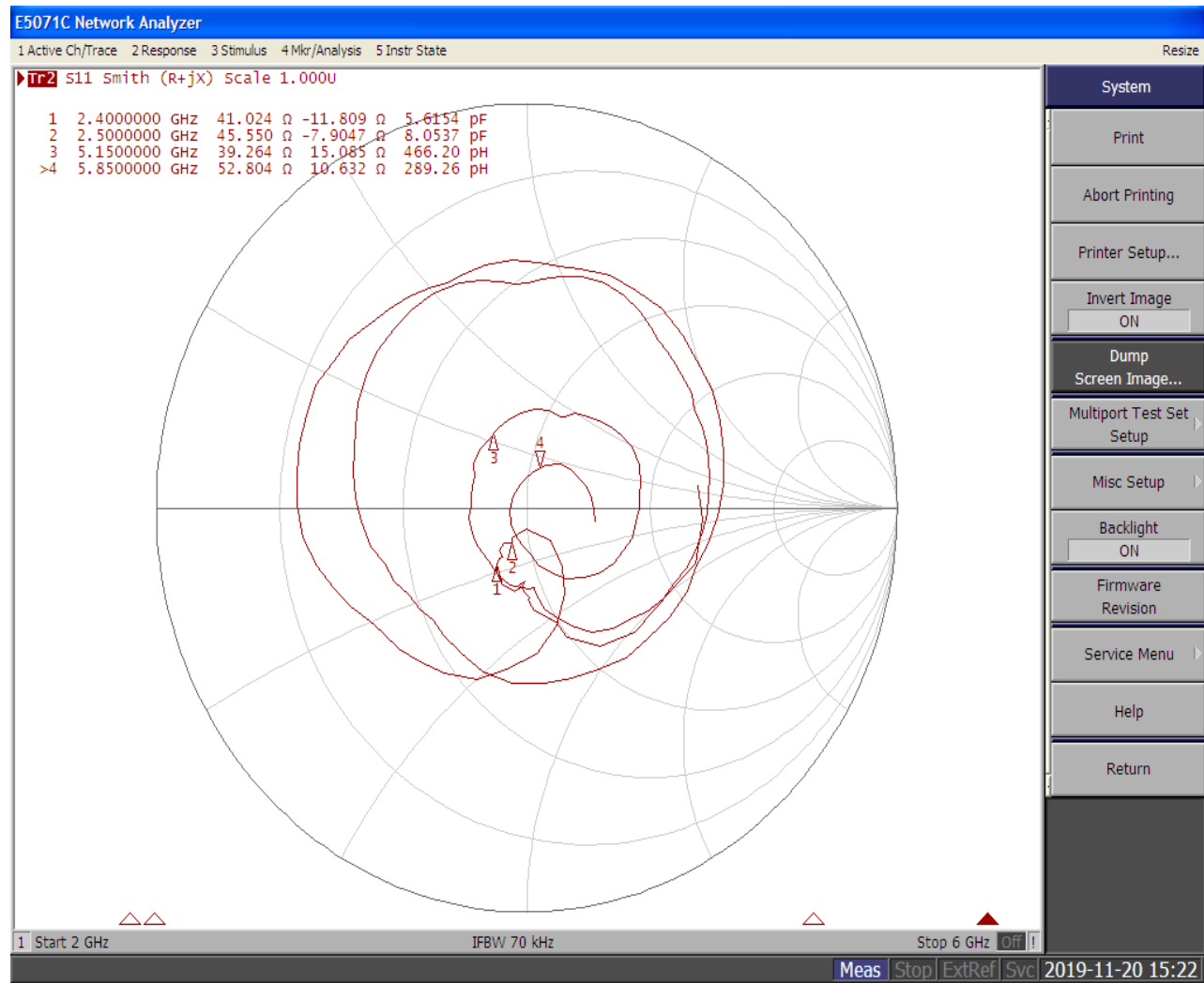
P/N:

3D0203BK02-003

Part Name

DIRECT CONNECTED EXTERNAL ANTENNA

Antenna test data



Checker: WANGJUN

Tester: Mark

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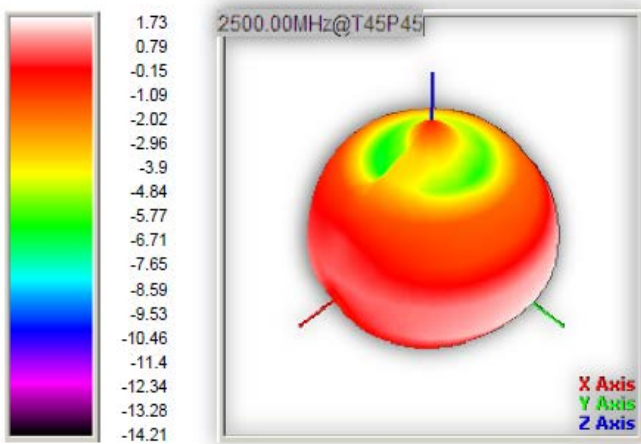
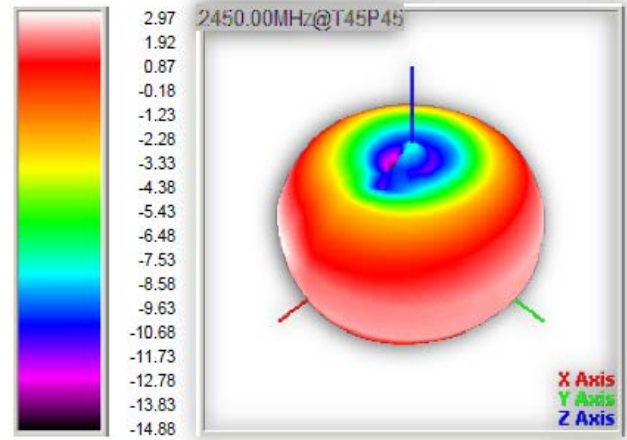
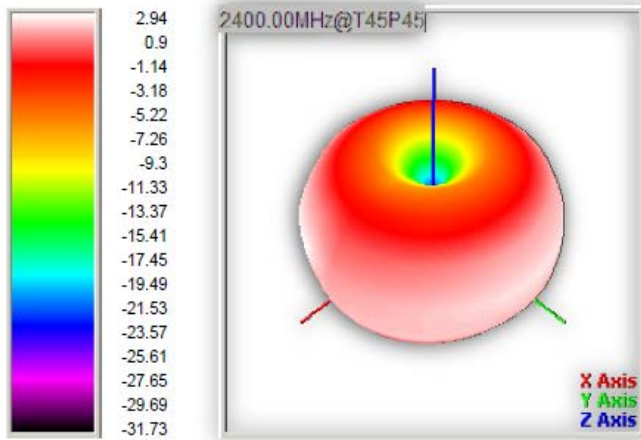
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Part Name

DIRECT CONNECTED EXTERNAL ANTENNA

Radiation Patter(3D)

2.4~2.5GHz



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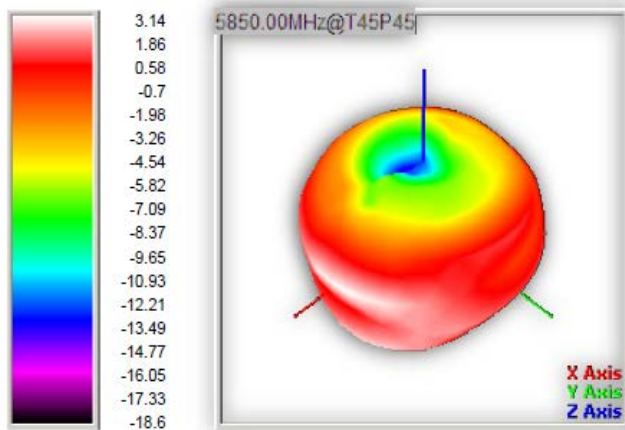
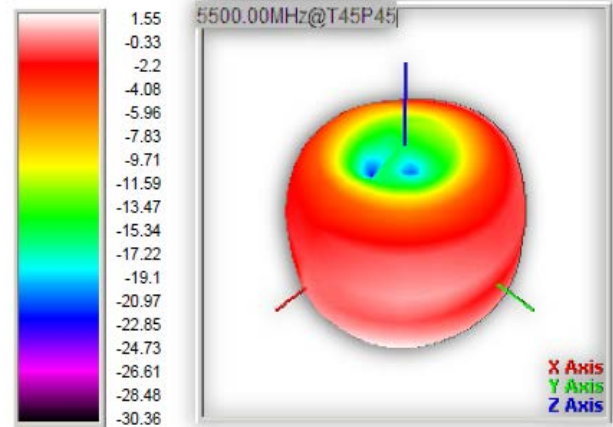
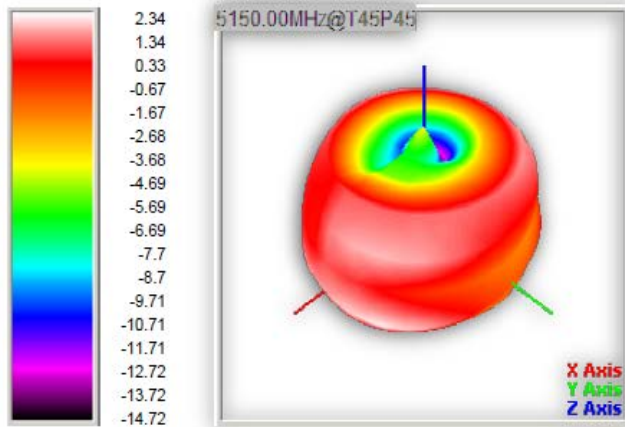
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Radiation Patter(3D)

5.15~5.85GHz



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Matching circuit



No-source test data

Frequency(MHz)	2400	2420	2450	2470	2500	5150	5300	5500	5700	5850
Peak Gain(dB1)	2.94	2.83	2.97	2.53	1.73	2.34	2.61	2.86	2.73	3.14
Efficiency (%)	74.00	76.20	78.70	76.90	66.60	73.00	64.50	75.40	67.10	78.90

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