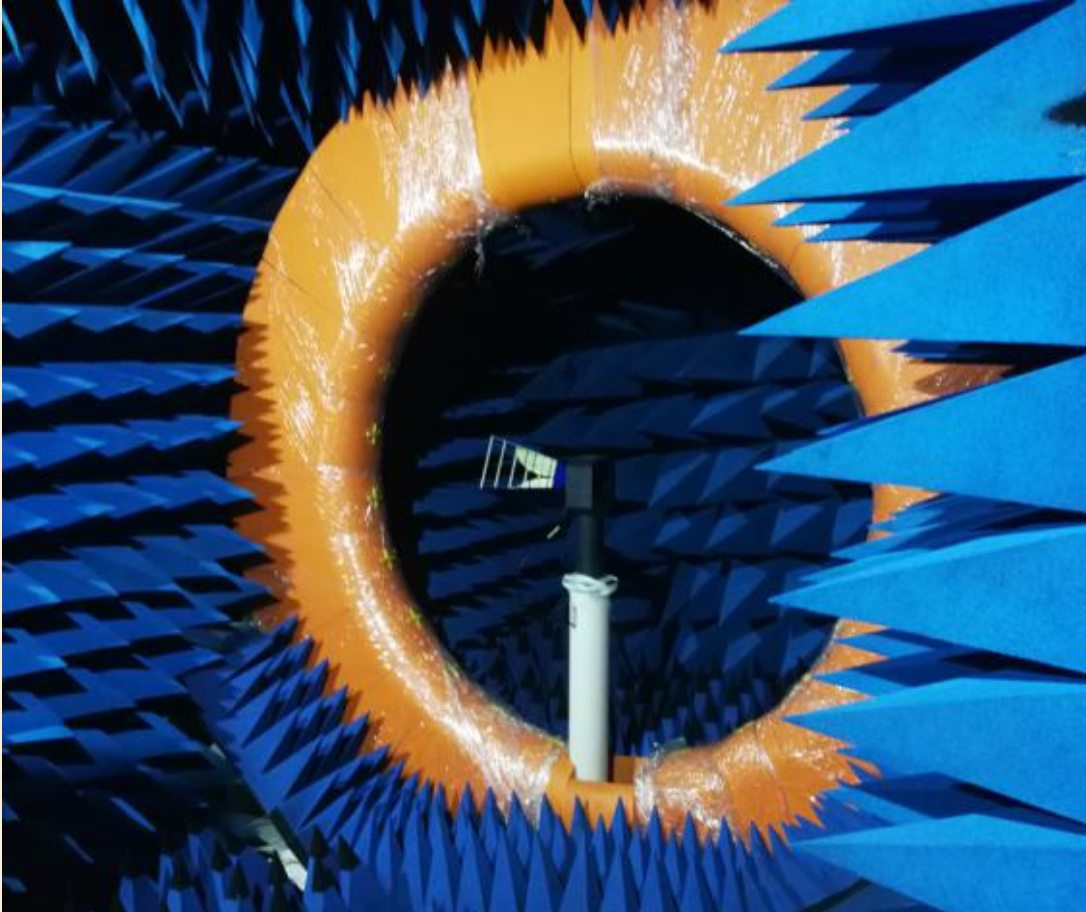


德威玛通讯设备有限公司
DWM Communication Equipment Co., Ltd.

Antenna Test Report
天线测试报告

❖ DATE: 2024-07-29

Test Equipment



A 24-probe microwave chamber



5G StarPoint SP9500



R&S CMW500



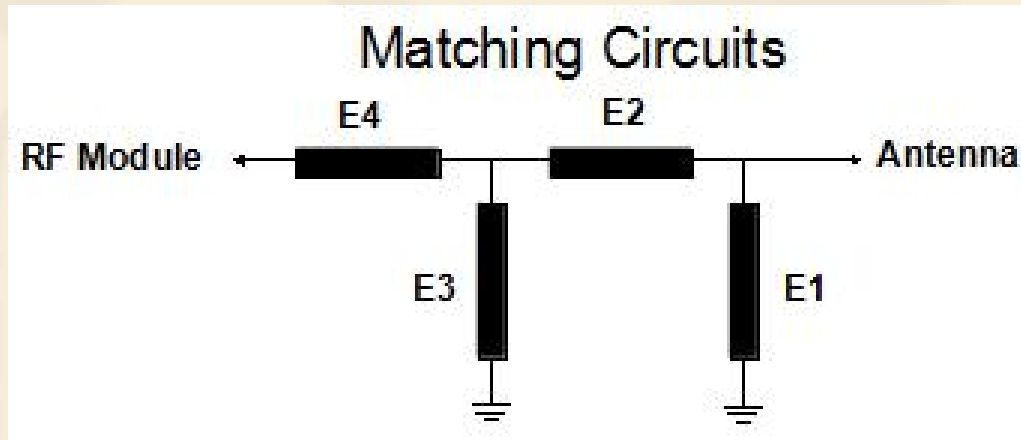
Agilent Technologies E5071C

Customer	VODOFO	Customer Number	LT15D
Antenna Band	LTE-CAT1: 703~960MHz&1710~2690MHz GPS:1575.42MHz	DWM Number	
Date	2024/07/29	Author	

Specification

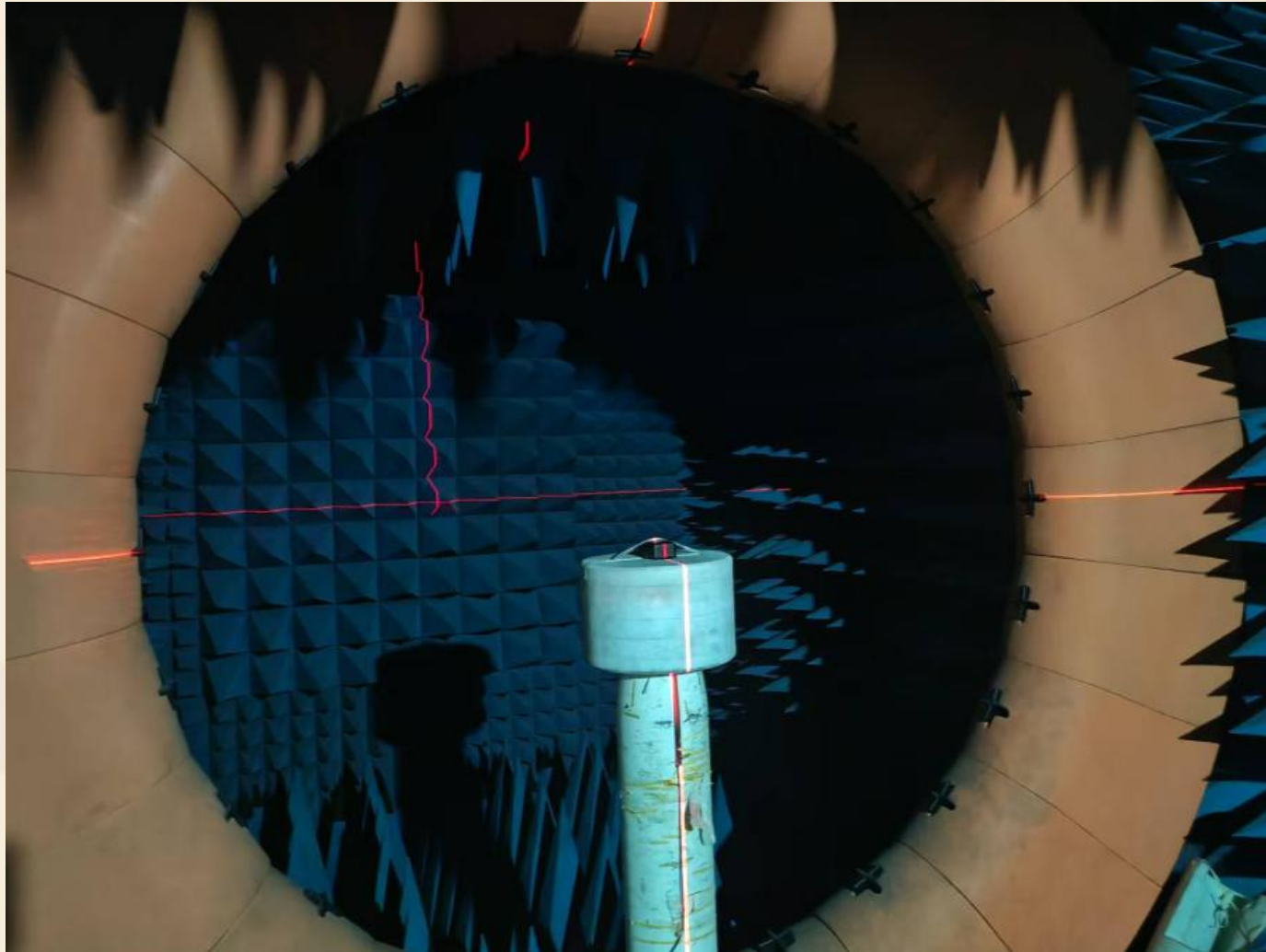
Technology Parameters	
Frequency (MHz)	4G:703~960MHz 1710~2690MHz GPS:1575. 42MHz
Peak Gain(dBi)	4G:703~960 MHz:0. 68dBi 1710~2690MHZ:3. 05dBi GPS:1575. 42MHZ:5. 25dBi
Efficiency(%)	4G:703~960 MHz>20% 1710~2690MHZ>30% GPS:1575. 42MHZ>40%
VSWR	4G:703~960 MHz<9. 0 1710~2690MHZ<5. 6 GPS:1575. 42MHZ<2. 0
Impedance (Ω)	50 Ω
Antenna Type	LTE-CATM:Monopole GPS:PATCH
Polarization	LTE-CATM:Linear GPS:Circular

The matching test value

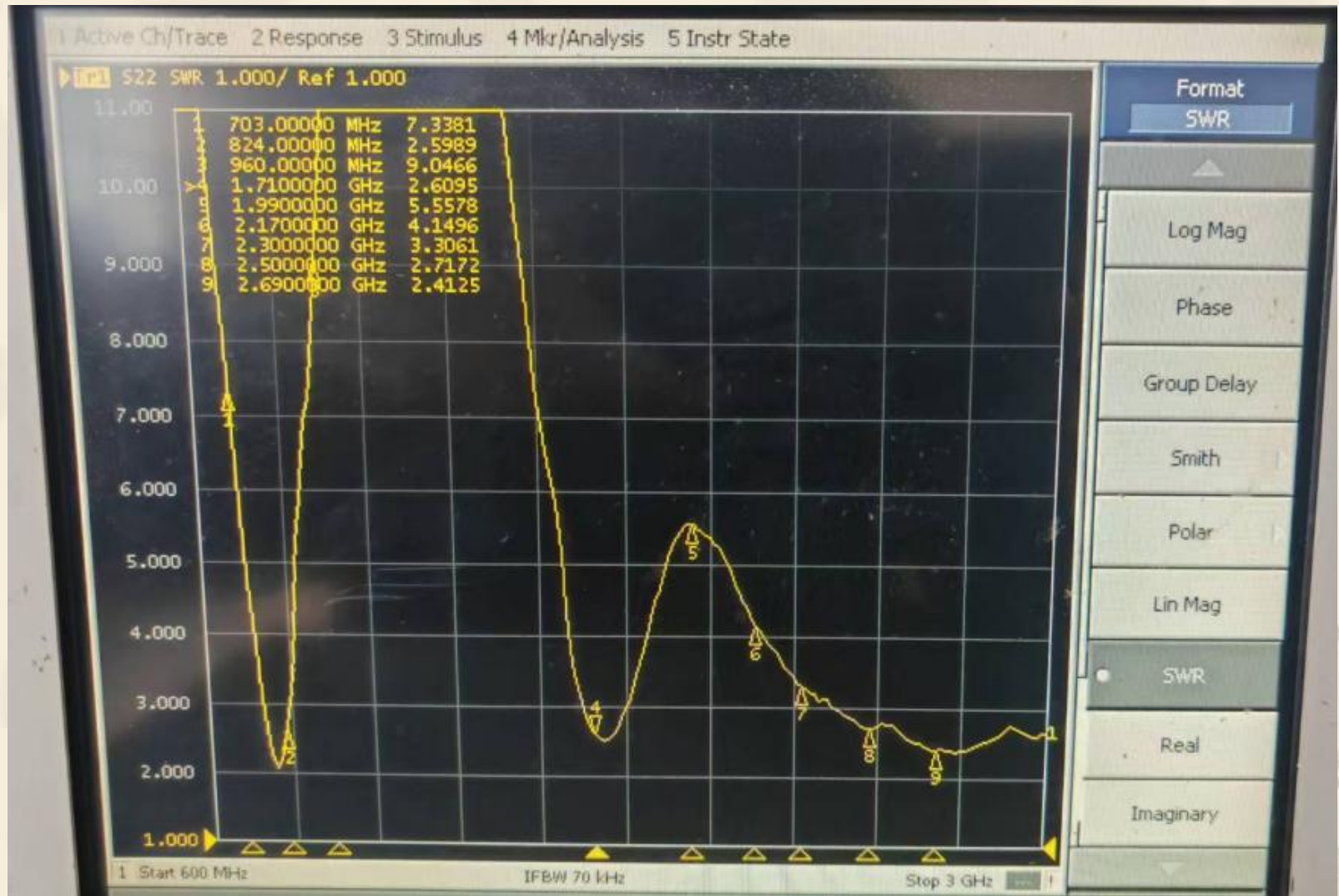


Element	Value
E1(0201)	
E2(0201)	
E3(0201)	
E4(0201)	

Anechoic Chamber Test



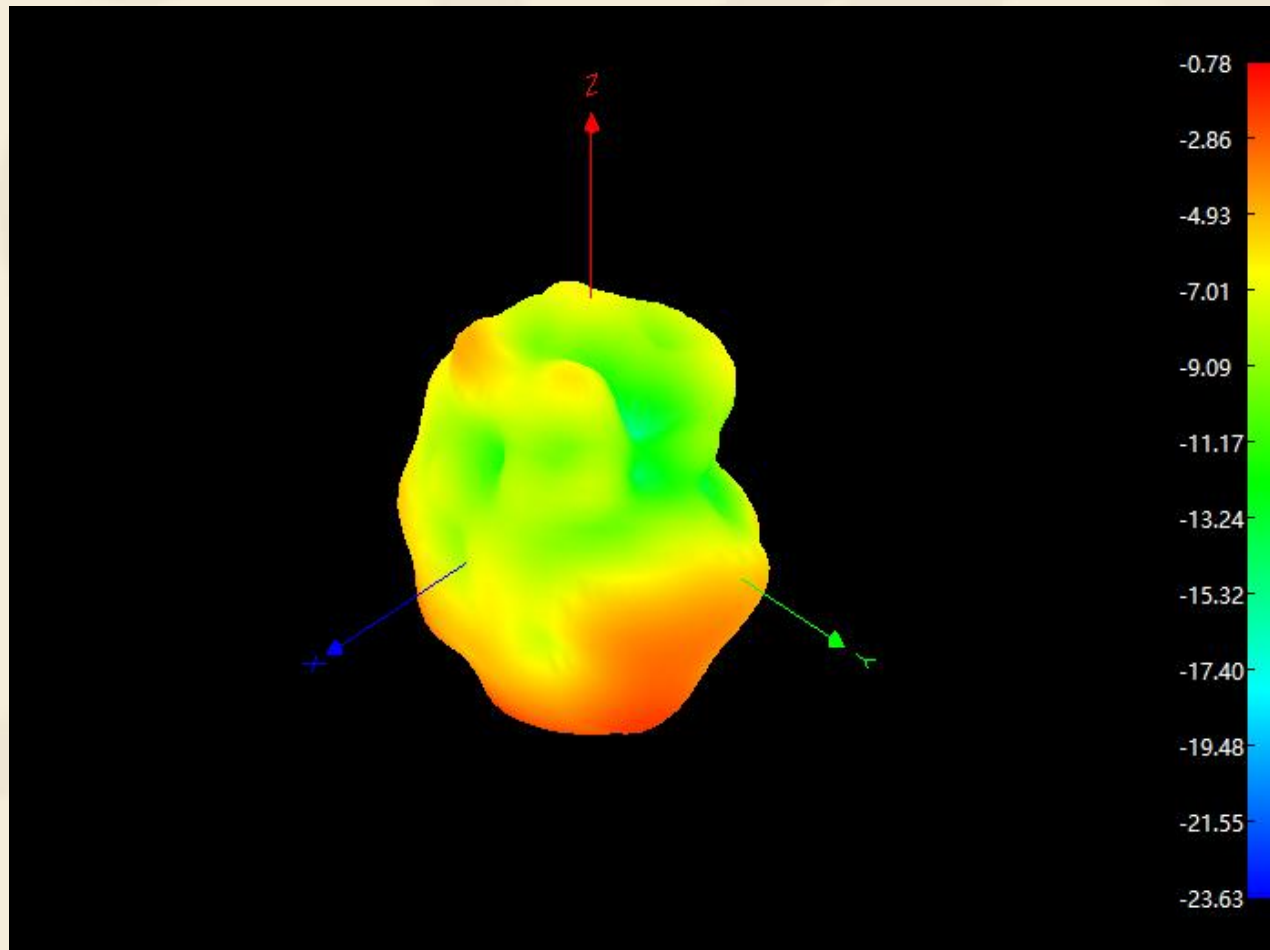
LTE-CAT1 Antenna Passive Data(SWR):



LTE-CAT1 Antenna Gain And Efficiency;

Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi	AvgGain/dBi
700	-6.38	23.00	-3.95	-7.58
720	-6.23	23.82	-3.17	-7.61
740	-5.78	26.44	-2.91	-7.41
760	-5.73	26.72	-2.05	-7.16
780	-5.06	31.21	-1.3	-6.42
800	-5.00	31.62	-0.78	-6.23
820	-4.76	33.45	-0.42	-5.41
840	-4.65	34.28	-0.16	-5.5
860	-5.33	33.31	0.38	-5.33
880	-4.7	33.88	0.51	-4.7
900	-5.03	31.44	0.68	-4.65
920	-6.42	22.8	-1.47	-6.42
940	-6.23	23.82	-0.97	-6.23
960	-6.73	21.23	-0.62	-6.73
1700	-4.72	35.73	2.36	-4.35
1750	-4.76	33.45	1.57	-4.93
1800	-4.91	32.26	1.87	-4.89
1900	-4.77	33.37	1.36	-5.04
2000	-4.96	31.88	1.12	-5.25
2100	-3.93	40.43	2.41	-4.5
2200	-3.49	44.80	2.58	-4.42
2300	-3.51	44.55	2.79	-4.31
2400	-3.16	48.35	2.81	-4.16
2500	-3.32	46.54	2.92	-4.07
2600	-3.44	45.33	3.05	-3.99
2700	-3.57	43.96	2.98	-4.03

LTE-CAT1 Antenna 3D Pattern(800MHz):

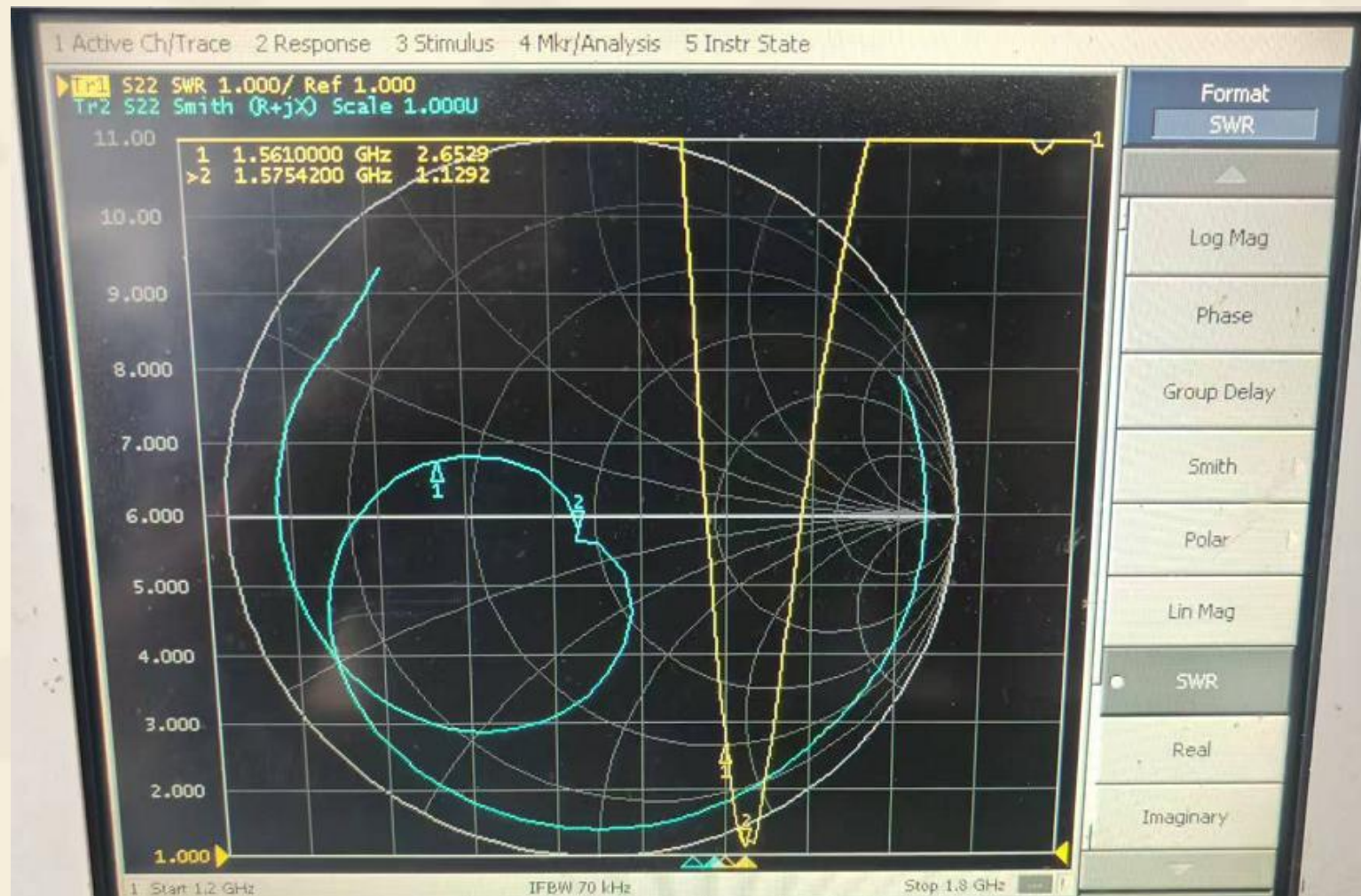


OTA Test Report (3D)

	FDD-LTE B2			FDD-LTE B3			FDD-LTE B4			FDD-LTE B5		
Channel	18650	18900	19150	19150	19250	19575	20000	20175	20350	20450	20525	20600
TRP	21.38	21.57	20.07	22.29	21.79	22.16	22.97	21.29	21.04	19.64	18.28	20.2
TIS			-91.72			-91.4			-91.47			-88.43

	FDD-LTE B7			FDD-LTE B8			FDD-LTE B28			FDD-LTE B66		
Channel	20850	21100	21350	21500	21625	21750	27260	27435	27610	13202 2	13232 2	13262 2
TRP	21.48	20.55	21.44	17.27	17.09	16.29	15.45	16.71	17.42	20.81	21.21	21.36
TIS			-92.62			-87.27			-88.08			-90.08

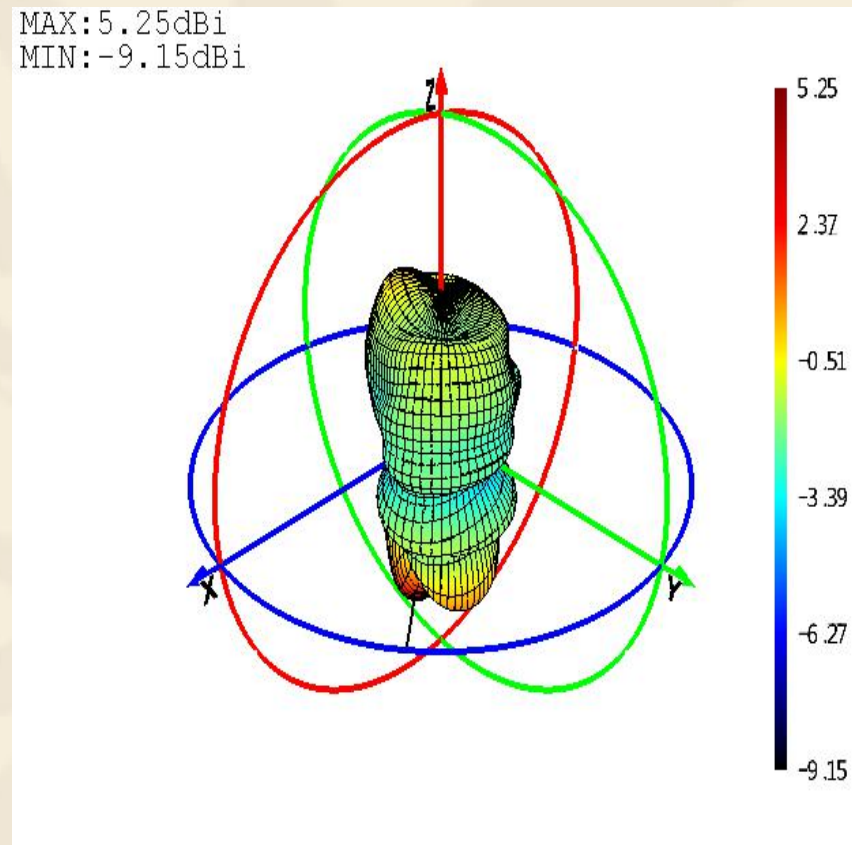
GPS Antenna Passive Data(SWR):



GPS Antenna Gain And Efficiency;

Gain&Efficiency				
Frequency (MHz)	Gain (dBi)	MinGain (dBi)	Efficiency (dB)	Efficiency (%)
1560.00	3.92	-24.78	-3.06	49.38
1565.00	4.73	-18.72	-2.97	50.43
1570.00	5.81	-8.81	-2.39	57.66
1575.00	5.25	-9.15	-2.63	54.62
1580.00	4.16	-14.01	-3.07	49.31

GPS Antenna 3D Pattern(1575.42MHz):





Thanks for your support.

DWM Communication Equipment co.,ltd

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