

耀登电通科技(昆山)有限公司

Auden Communications & Multimedia Techno (Kunshan) Co., Ltd

HR70

Antenna Evaluating Report

Prepared By:

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Checked By :

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Date of Report:

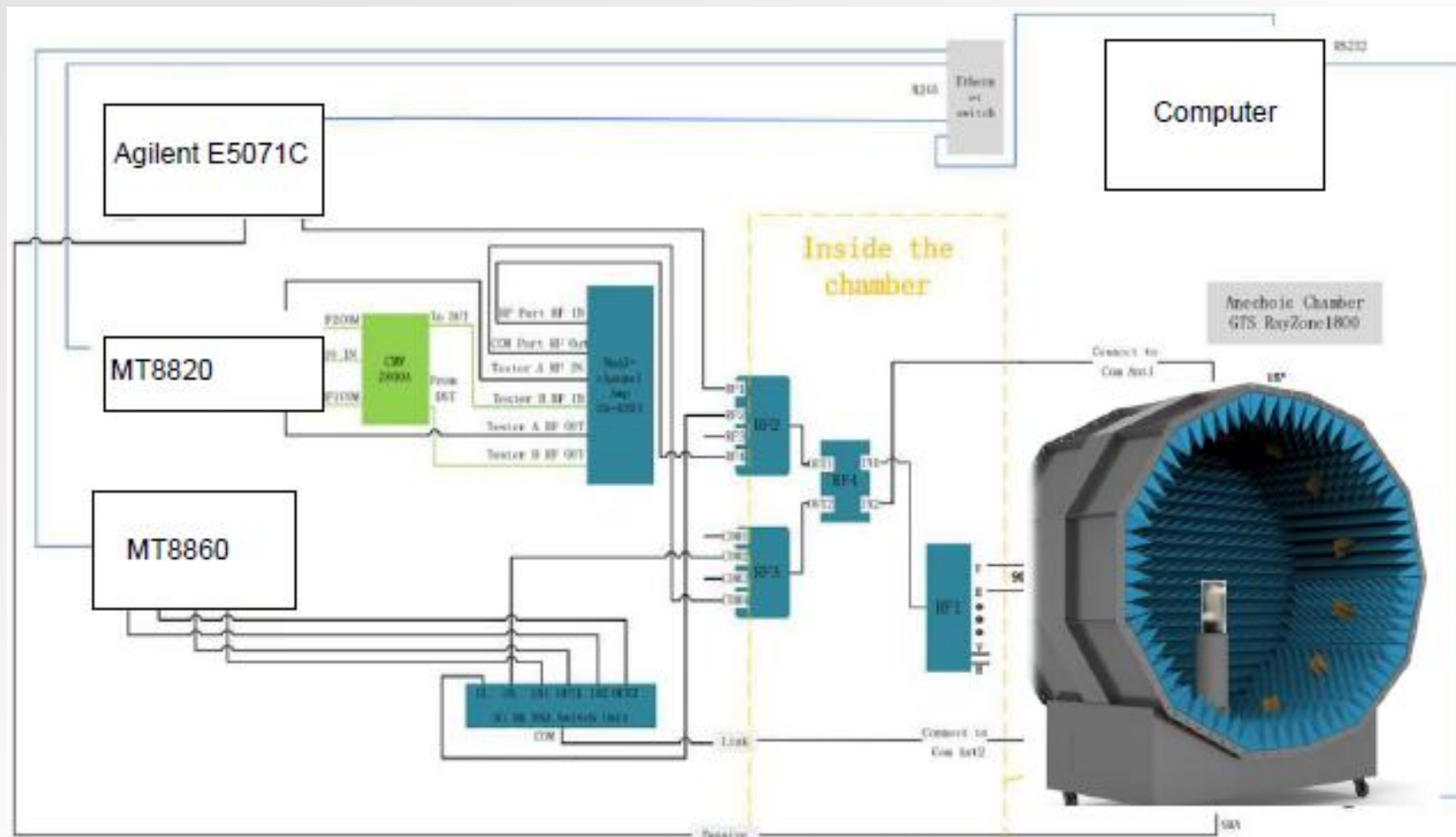
2022/9/9



LIST OF TEST EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E5071C	2022.05.10	2023.06.09	1 year
2	2G/3G Communications Test Set	Agilent	8960	2022.05.10	2023.06.09	1 year
3	LTE Wireless Communications Test Set	Anritsu	MT8820	2022.05.10	2023.06.09	1 year
4	TD Communications Test Set	StarPoint	SP6010	2022.05.10	2023.06.09	1 year
5	WIFI Wireless Communications Test Set	Anritsu	MT8860	2022.05.10	2023.06.09	1 year
6	GPS Signal	Agilent	E4438C	2022.05.10	2023.06.09	1 year
7	Chamber	GTS	Rayzone18 00	2022.05.10	2023.06.09	1 year

Test set-up



According to the specifications of the manufacturer, it must comply with the requirements of the following standards: ANSI/IEEE Std 149-2008



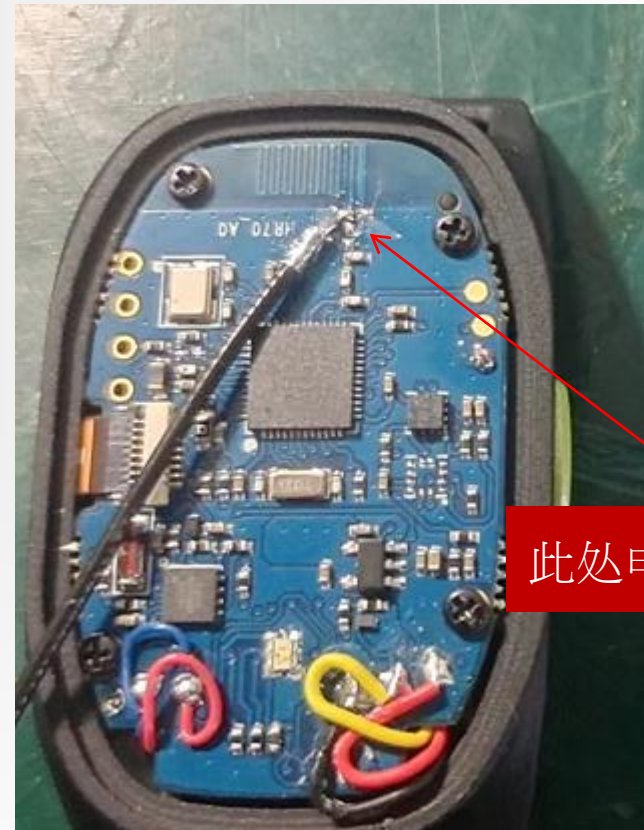
The method is used to measure the antenna 3D GAIN of EUT in OTA qualified Rayzone1800 chamber. Equipment Under Test(EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1m.



Frequency Range

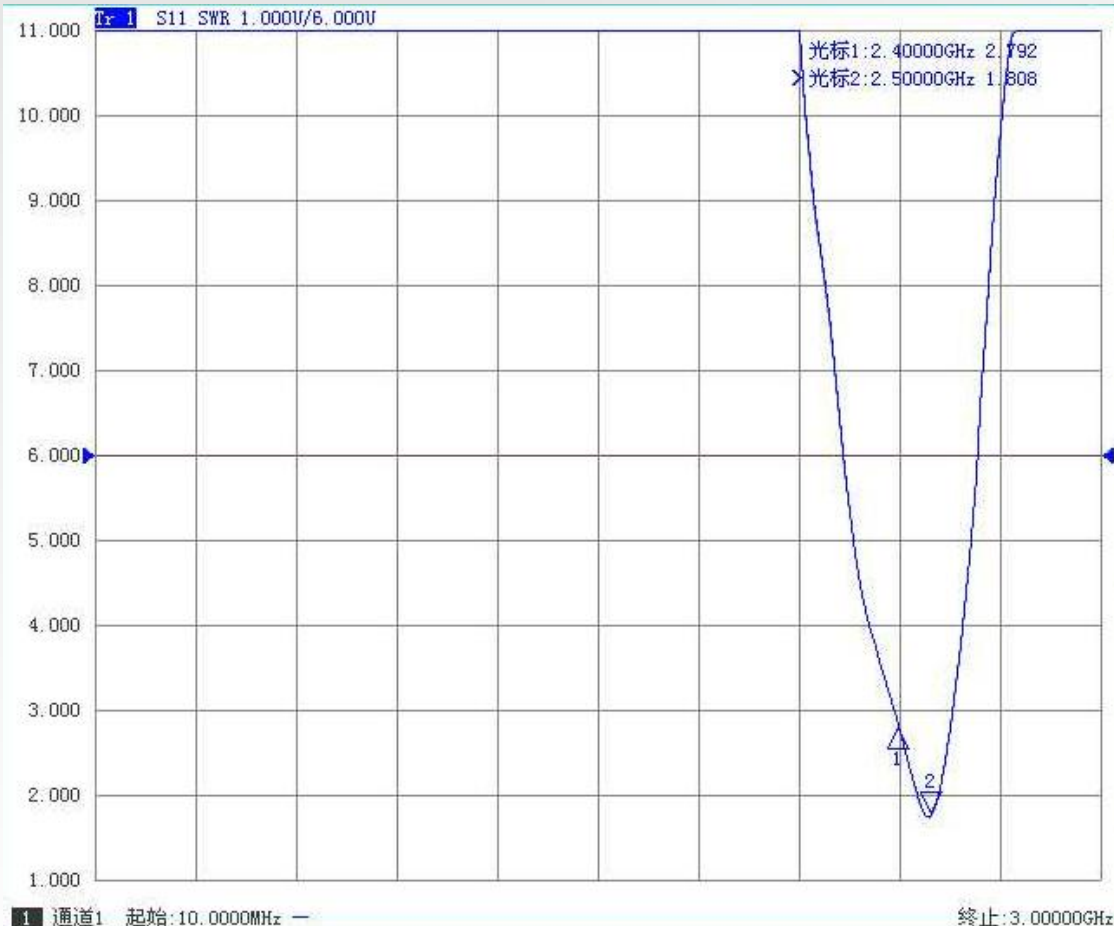
使用系统	Band	使用系统	Band
GSM		WIFI / BT	2.4G~2.5G
WCDMA		全球定位	GPS/BD
TD-SCDMA		FM	
CDMA		Others	
FDD LTE			
TDD LTE			

Machine picture



此处电感断开

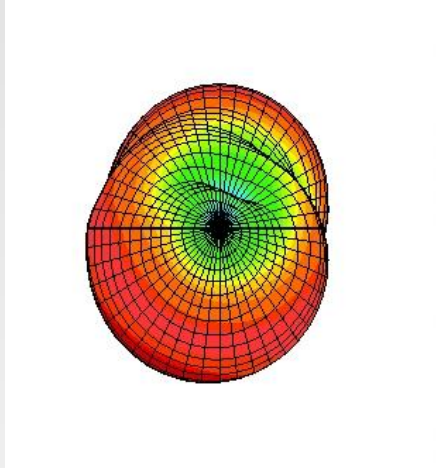
BT passive standing wave and efficiency



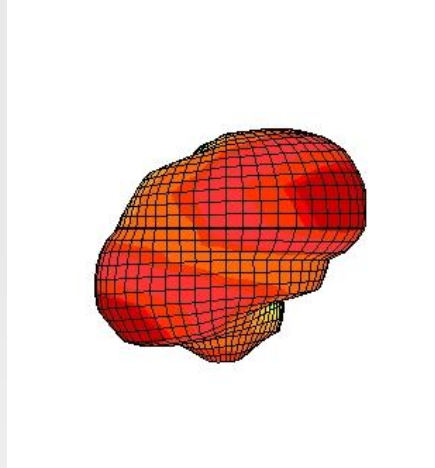
Frequency	Efficiency Total (%)	Gain Total (dBi)
2.4G	28.18	-1.53
2.41G	29.31	-1.39
2.42G	32.28	-0.98
2.43G	33.11	-0.9
2.44G	33.65	-0.79
2.45G	37.33	-0.32
2.46G	36.73	-0.32
2.47G	35.73	-0.46
2.48G	36.48	-0.39
2.49G	34.99	-0.7
2.5G	33.73	-0.82

BT passive standing wave and efficiency

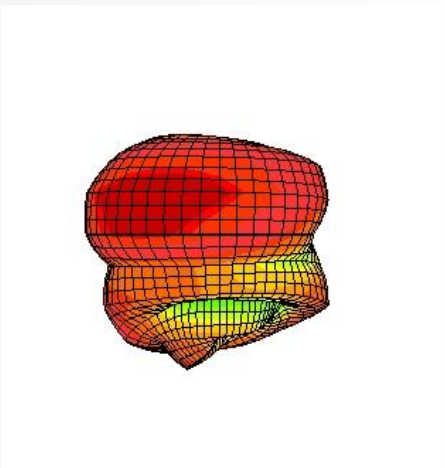
2.4GHzFront-Back View



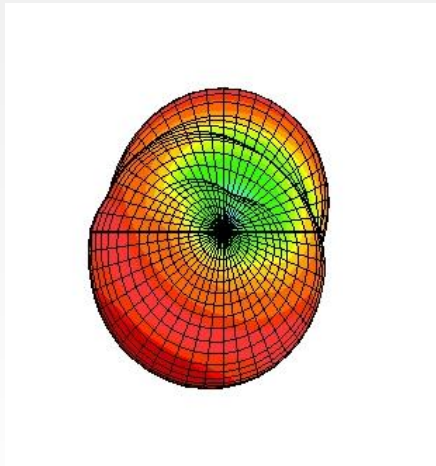
2.4GHzLeft-Right View



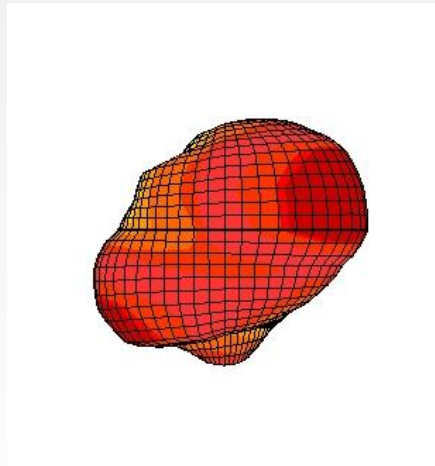
2.4GHzUp-Down View



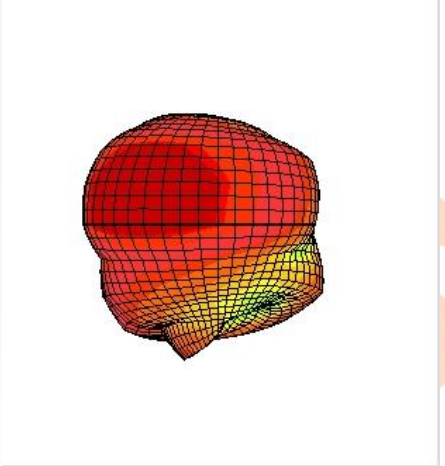
2.5GHzFront-Back View



2.5GHzLeft-Right View



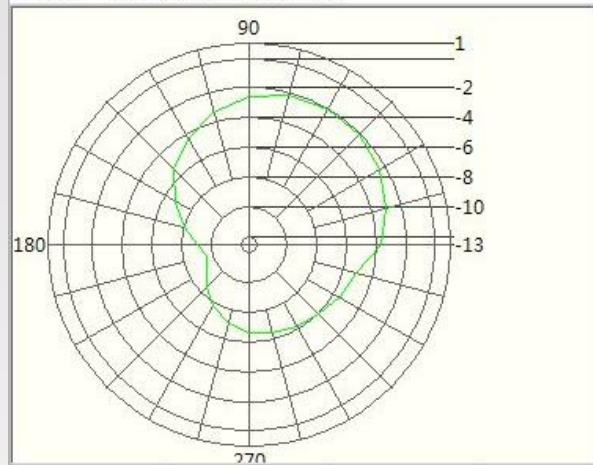
2.5GHzUp-Down View



BT antenna 2D diagram

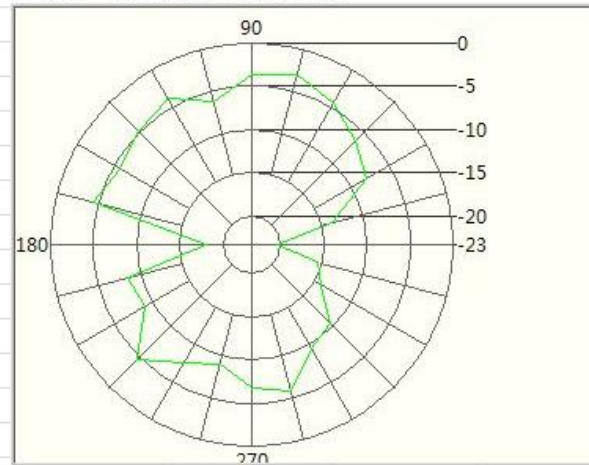
2.4GHz H

Excel XY Plot (Value dB / Angle deg.)



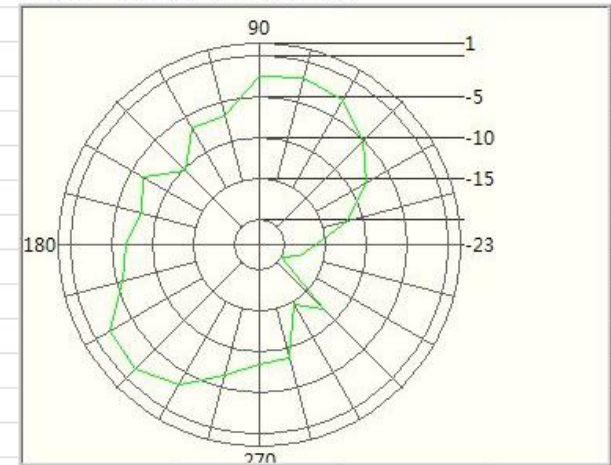
2.4GHz E1

Excel XY Plot (Value dB / Angle deg.)



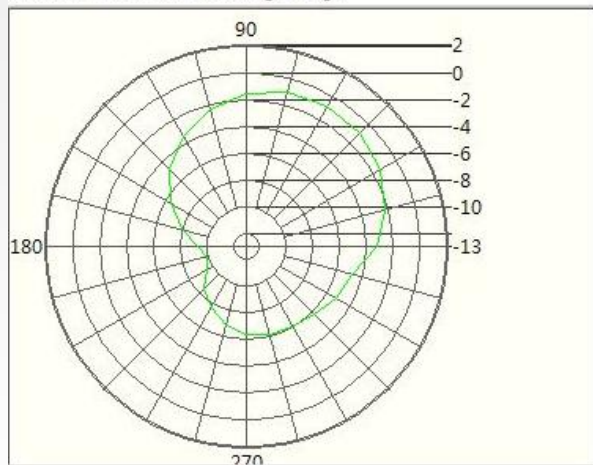
2.4GHz E2

Excel XY Plot (Value dB / Angle deg.)



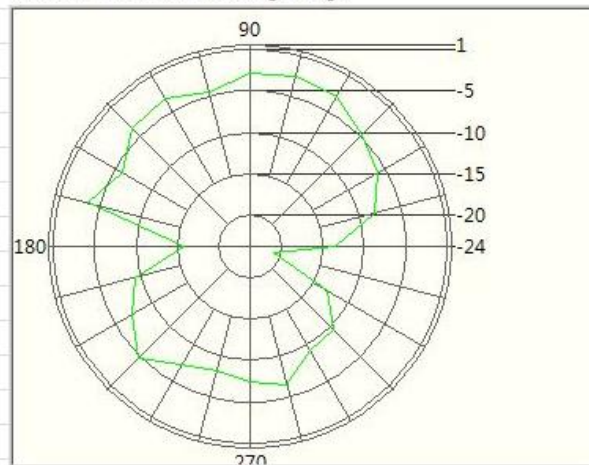
2.5GHz H

Excel XY Plot (Value dB / Angle deg.)



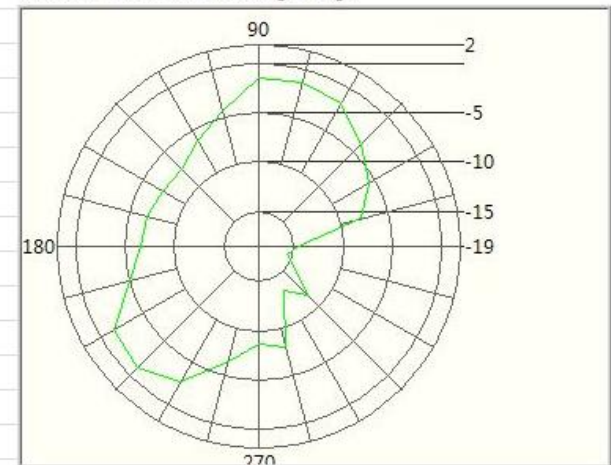
2.5GHz E1

Excel XY Plot (Value dB / Angle deg.)



2.5GHz E2

Excel XY Plot (Value dB / Angle deg.)



Thank You



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ASPIRE
UPGRADE
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