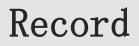


耀登电通科技(昆山)有限公司 Auden Communications & Multimedia Techno (Kunshan) Co., Ltd

Antenna Evaluating Report



Persisting in Technology antenna solutions for wireless technologies





Date	Rev	Description
2023-01-05	01	Testing

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LIST OF TEST EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Туре No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E5071C	2022.05.08	2023.06.09	1 year
2	2G/3G Communications Test Set	Agilent	8960	2022.05.08	2023.06.09	1 year
3	LTE Wireless Communications Test Set	Anritsu	MT8820	2022.05.08	2023.06.09	1 year
4	TD Communications Test Set	StarPoint	SP6010	2022.05.08	2023.06.09	1 year
5	WIFI Wireless Communications Test Set	Anritsu	MT8860	2022.05.08	2023.06.09	1 year
6	GPS Signal	Agilent	E4438C	2022.05.08	2023.06.09	1 year
7	Chamber	GTS	Rayzone18 00	2022.05.08	2023.06.09	1 year

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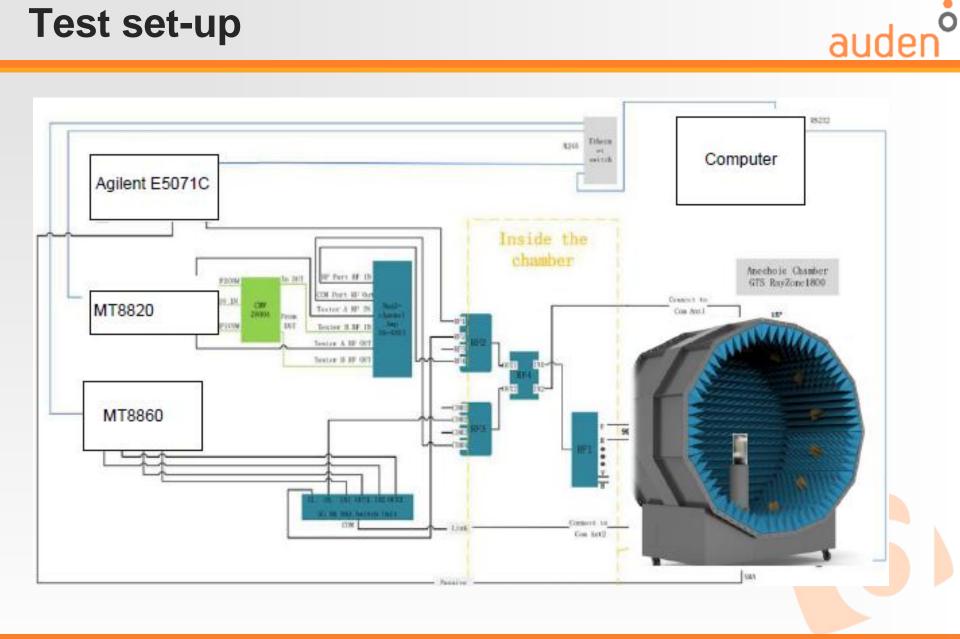
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使用系统	Band	使用系统	Band
GSM		WIFI / BT	2.4G~2.5G
WCDMA		全球定位	GPS/BD
TD-SCDMA		FM	
CDMA		Others	
FDD LTE			
TDD LTE			

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Test set-up



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

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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.

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Machine picture







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GPS/BD passive standing wave and its efficiency

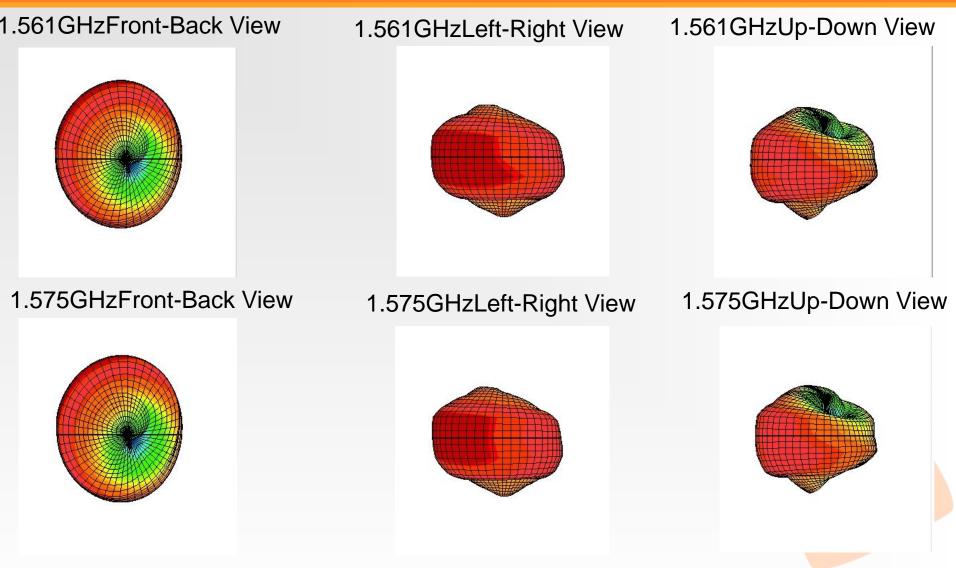


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GPS antenna pattern





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GPS antenna 2D diagram





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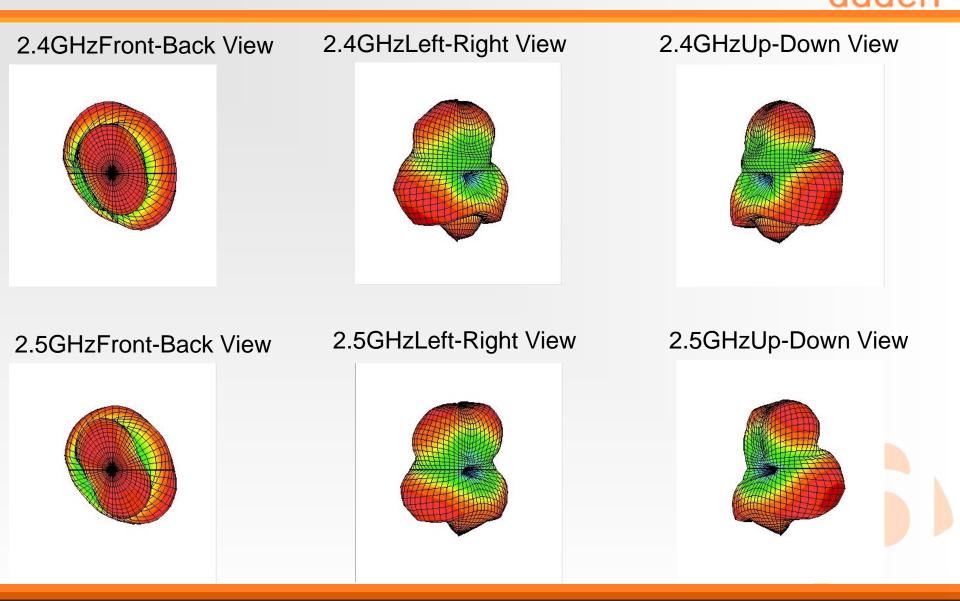
BT passive standing wave and efficiency

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11.000		M	光标2:2.	40000GHz 2.1 50000GHz 2.5 57500GHz 19.	562	Frequency	Efficiency Total (%)	Gain Total (dBi)
		1						
9.000		1				2. 4G	56.1	2.07
8.000						2. 41G	55.59	1.96
7.000						2. 42G	56.62	2.05
1.000						2. 43G	57.41	2.13
6.000					1	2. 44G	58.88	2.3
5.000					-+	2. 45G	61.24	2.47
4,000						2. 46G	58.48	2.23
3.000		 		\square		2. 47G	57.94	1. 99
			2			2. 48G	<mark>56. 23</mark>	1.69
2.000			1			2. 49G	5 <mark>3. 58</mark>	1.21
1.000 1 通道1 起	/////////////////////////////////////				3.00000GHz	2. 5G	54. <mark>45</mark>	1.32

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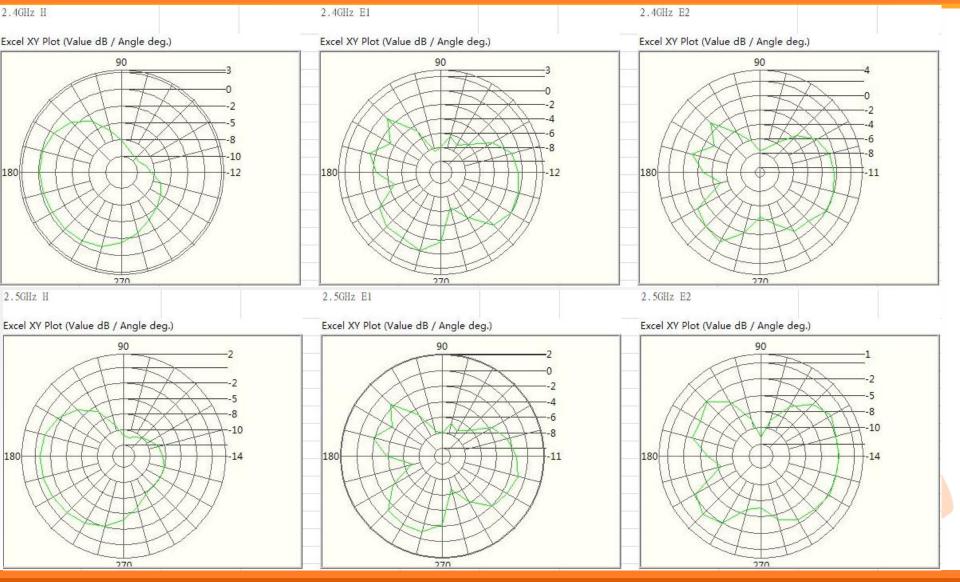
BT passive standing wave and efficiency



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BT antenna 2D diagram





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Thank You



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AUDENASPIRE UPGRADE DEVOTE EXCELLENCE NAVIGATOR

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