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

SR30报告 Antenna Evaluating Report

weifan.fan

Prepared By: Weifan Fan

Singer Mao

Checked By : Jianjun Mao



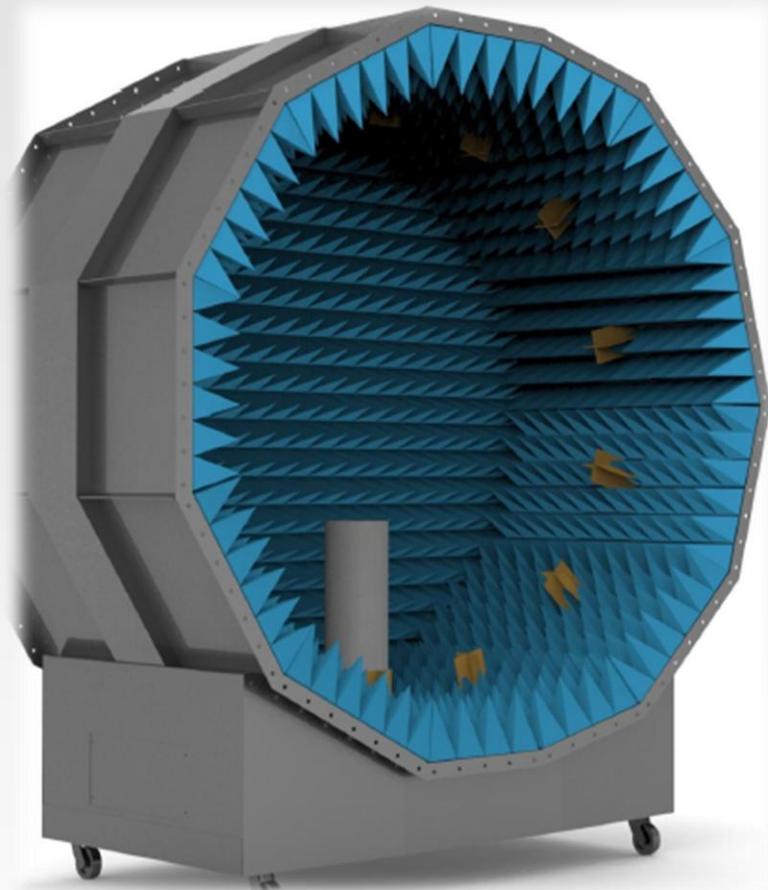
报告记录

Date	Rev	Description
2023-01-07	01	调试



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			



- Chamber : GTS Rayzone1800
- 网络分析仪 : Agilent E5071C
- 2G/3G综测仪 : Agilent 8960
- LTE综测仪 : Anritsu MT8820
- TD综测仪 : StarPoint SP6010
- WIFI综测仪 : Anritsu MT8860
- GPS信号源 : Agilent E4438C

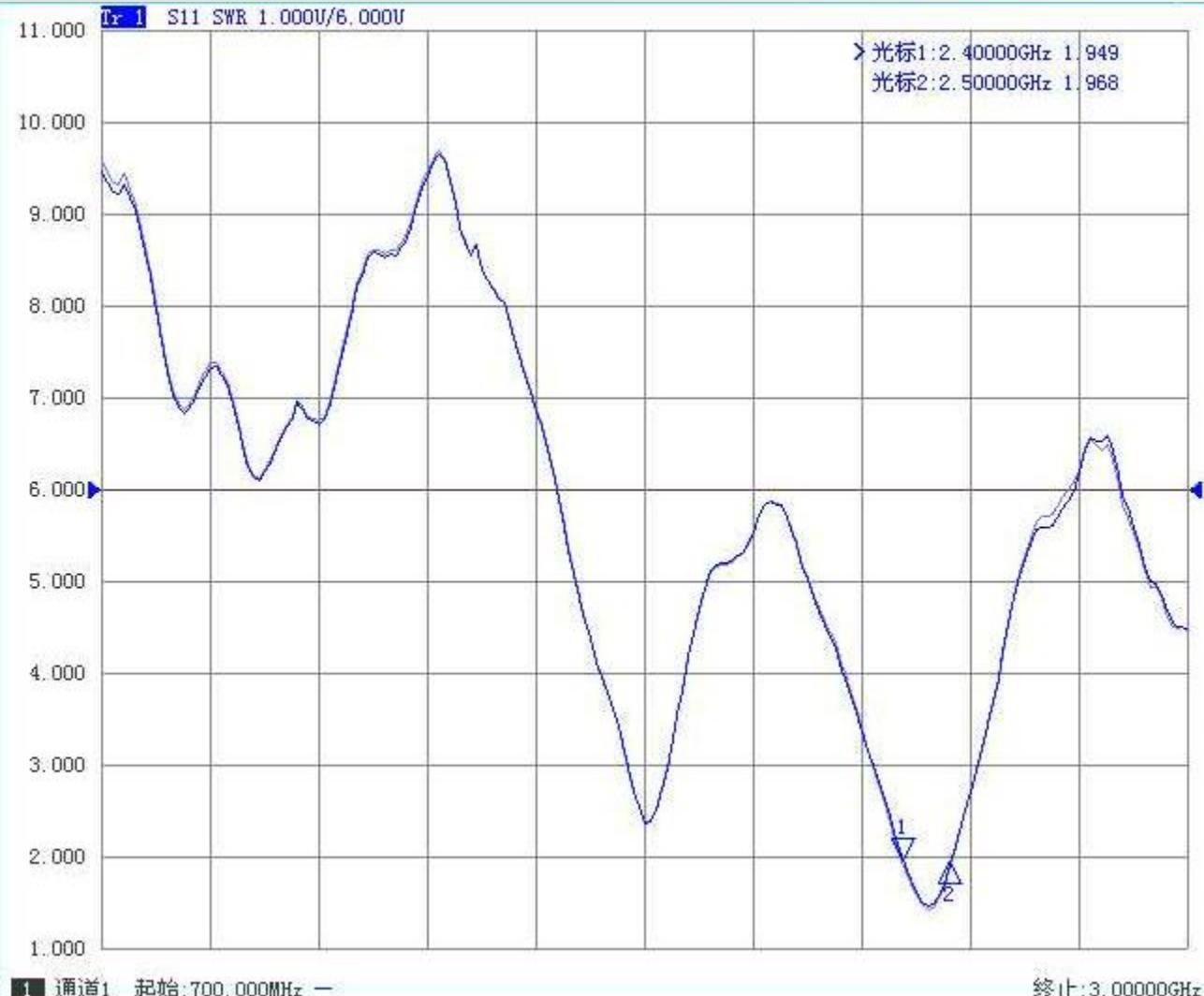


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整机环境



无源驻波



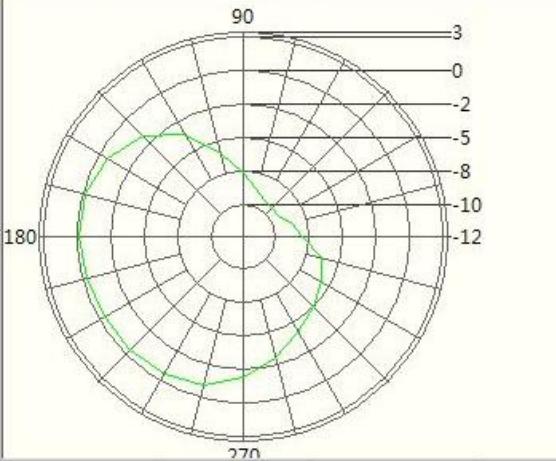
Frequency	Efficiency Total (%)	Gain Total (dBi)
2.4G	42.76	0.97
2.41G	44.46	0.98
2.42G	44.36	0.86
2.43G	47.53	1.05
2.44G	44.98	0.7
2.45G	44.46	0.61
2.46G	48.75	0.95
2.47G	49.89	1
2.48G	49.66	0.93
2.49G	47.53	0.74
2.5G	42.95	0.22

BT antenna 2D diagram

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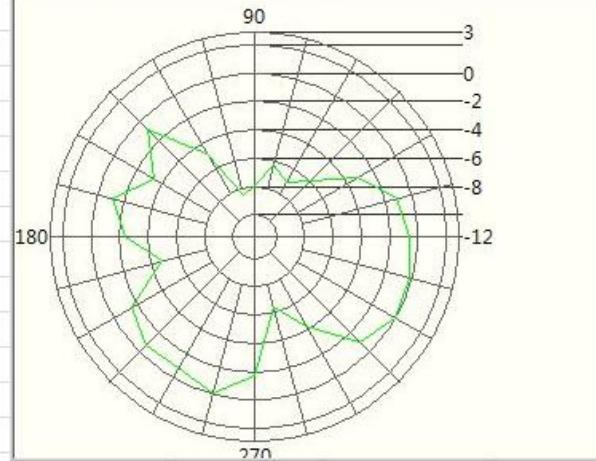
2.4GHz H

Excel XY Plot (Value dB / Angle deg.)



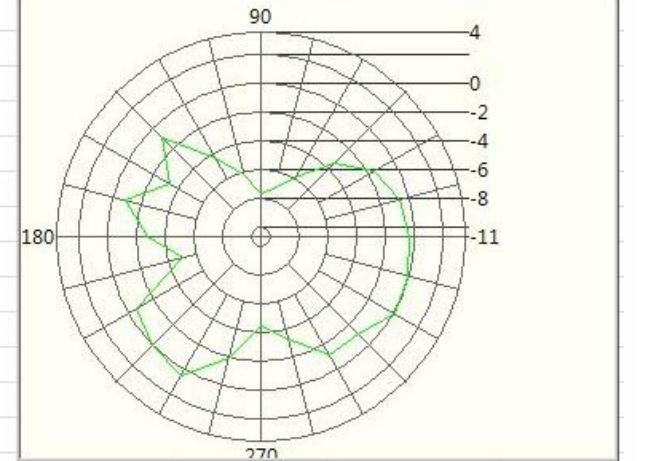
2.4GHz E1

Excel XY Plot (Value dB / Angle deg.)



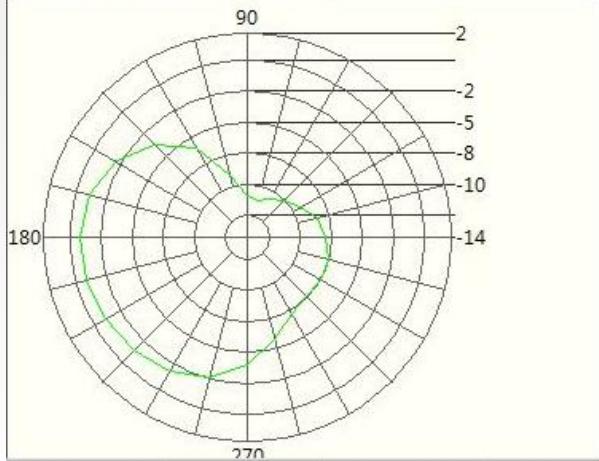
2.4GHz E2

Excel XY Plot (Value dB / Angle deg.)



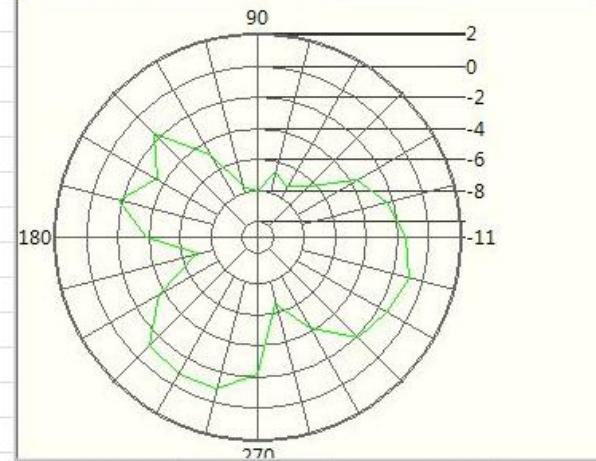
2.5GHz H

Excel XY Plot (Value dB / Angle deg.)



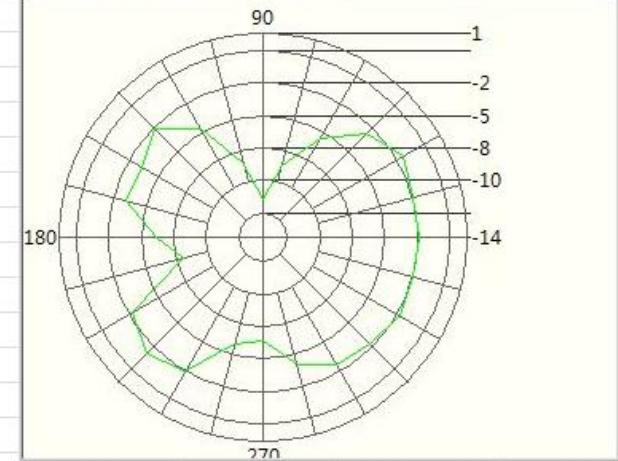
2.5GHz E1

Excel XY Plot (Value dB / Angle deg.)



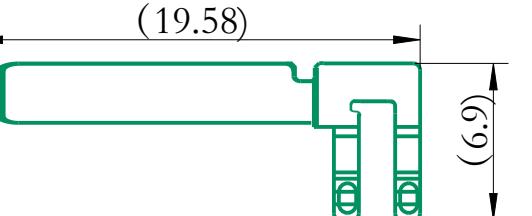
2.5GHz E2

Excel XY Plot (Value dB / Angle deg.)



Company Confidential, Auden

Many aspects of this presentation are protected by US, TW, CN and international patents and patent applications

A	1	2	3	4	5	6	7	8																																																
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①	A/1																																																							
B																																																								
C																																																								
D	<p>skills requirement:</p> <ol style="list-style-type: none"> 1. Refer to 3D for unfilled dimensions; 2. The size shown in \square is the key control size; the size () is the reference size; 3. The material is SUS301 3/4H; the thickness is 0.2mm, the spring feet are brushed with gold, and the gold plating is 0.03 microns 4. The gap between the uncontrolled angle and the actual matching bracket is less than 0.10mm 5. The rough edge of the product is not more than 0.03mm 																																																							
E	<p>Environmental substance requirements:</p> <p>Cadmium Cd <100 ppm Mercury Hg <1000ppm Lead Pb <1000ppm Hexavalent chromium Cr(VI)<1000ppm Polybrominated biphenyls PBBs <1000ppm Polybrominated diphenyl ethers PBDEs<1000ppm Diocyl phthalate <1000ppm Dibutyl phthalate <1000ppm Diisobutyl phthalate <1000ppm Butyl cresyl phthalate<1000ppm HF: (halogen free) BR<900; CL<900; BR+CL<1500</p>																																																							
F	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="width: 25%;">Tolerance table</th> <th colspan="4" style="width: 75%;">Segmentation of basic dimensions (refer to GB/T 1804-f)</th> </tr> <tr> <th colspan="2"></th> <th>0 ~ 6</th> <th>6 ~ 30</th> <th>30 ~ 120</th> <th>120 ~ 400</th> </tr> <tr> <th colspan="2">Tolerance value</th> <td>± 0.05</td> <td>± 0.10</td> <td>± 0.15</td> <td>± 0.2</td> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Version</td> <td style="text-align: center;">A/1</td> <td colspan="2" style="text-align: center;">Model</td> <td colspan="2" style="text-align: center;">BSC200</td> </tr> <tr> <td style="text-align: center;">Proportion</td> <td style="text-align: center;">3:1</td> <td colspan="2" rowspan="2" style="text-align: center;">Parts diagram</td> <td colspan="2" rowspan="2" style="text-align: center;">Manufacturer</td> </tr> <tr> <td style="text-align: center;">Unit</td> <td style="text-align: center;">mm</td> </tr> <tr> <td></td> <td></td> <td colspan="2" rowspan="2" style="text-align: center;">Name</td> <td colspan="2" rowspan="2" style="text-align: center;">BSC200-BLE ANT</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td colspan="2" rowspan="2" style="text-align: center;">  </td> <td colspan="2" rowspan="2"></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>								Tolerance table		Segmentation of basic dimensions (refer to GB/T 1804-f)						0 ~ 6	6 ~ 30	30 ~ 120	120 ~ 400	Tolerance value		± 0.05	± 0.10	± 0.15	± 0.2	Version	A/1	Model		BSC200		Proportion	3:1	Parts diagram		Manufacturer		Unit	mm			Name		BSC200-BLE ANT											
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Thank You

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EXCELLENCE
NAVIGATOR**

AUDEN Techno Corp. Taiwan

TEL:886-3-363-1901

**No.19 Lane 772, Ho Ping Road Bade City,
Taoyuan Hsien, Taiwan.**

**AUDEN communications & Multimedia Techno
(Kunshan) Co. Ltd.**

TEL: 86 512 5764 6998

**No.15 Ying-bing Rd Luyang Town Kun Shan Jiang Su
China**

