

深圳市亿圣邦科技有限公司

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Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: 普锐

Project: T07B

Product: WIFI/GPS Antenna—FPC

Report date: 2024-10-31

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Checked by : Eason Huang

Approved by :

Purpose

This report is to measure the performance of SLK for Master Antenna on 普锐. All measure data are showed below.

Content

1. Product Overview

2. Test Result

2.1 WIFI/GSP NFC Antenna VSWR

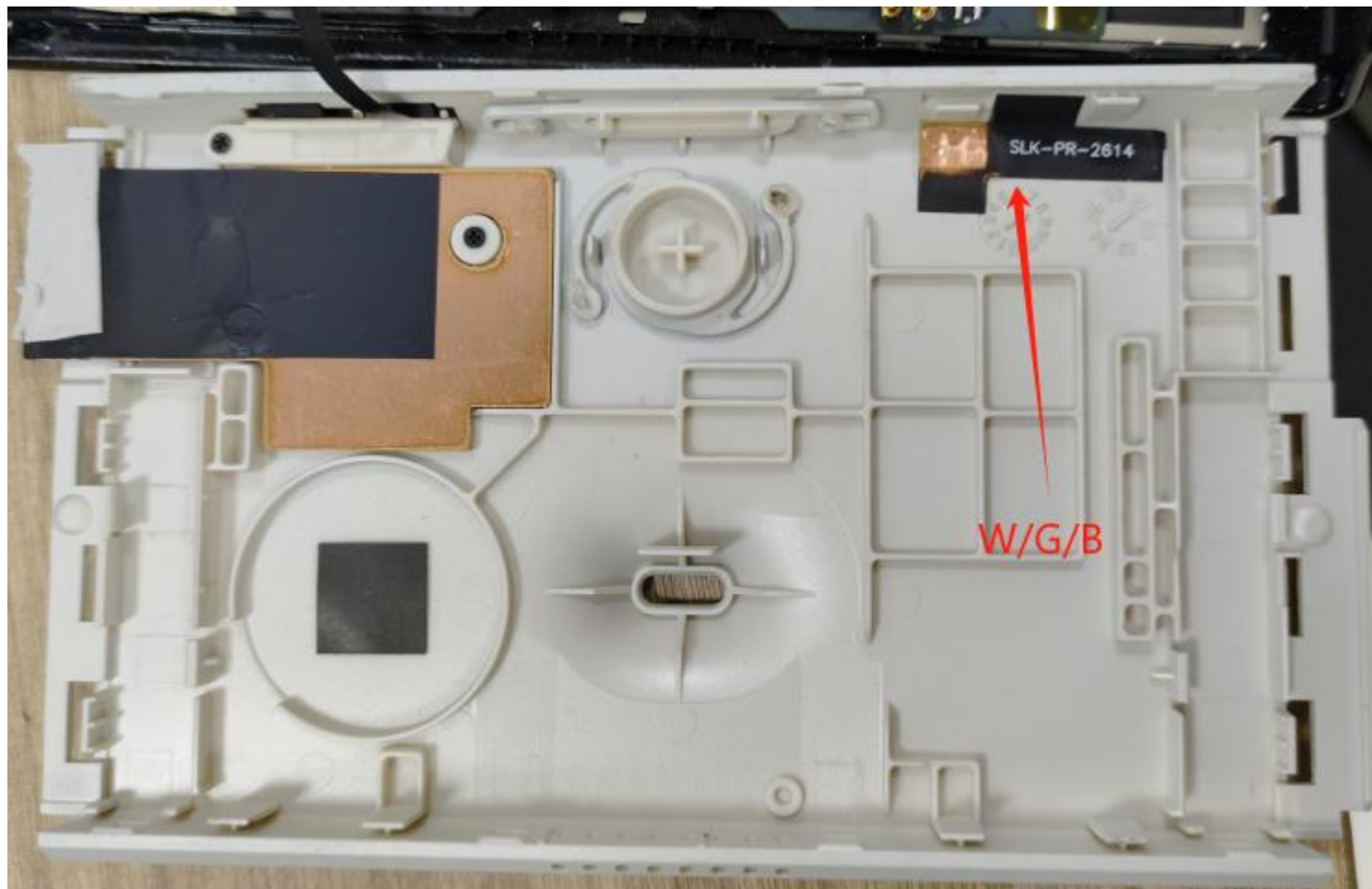
2.2 WIFI/GPS Antenna Gain/Efficiency/3D DATE

2.3 WIFI throughput test

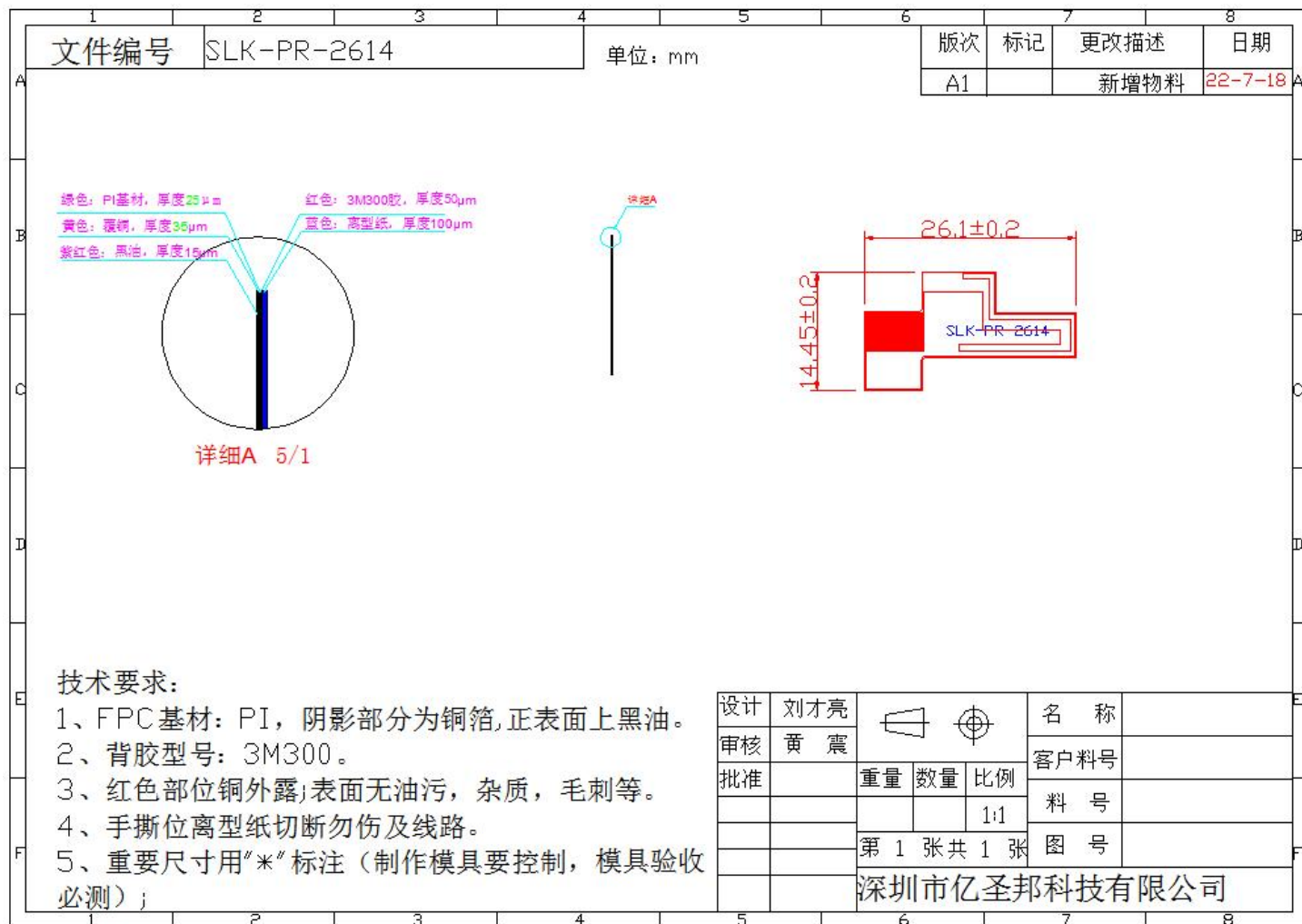
2.4 GPS test

3. Conclusions

1. Product Overview & Dimension



1. Product Overview & Dimension



2. Test Result

2.1 WIFI+GPS Antenna VSWR/S11



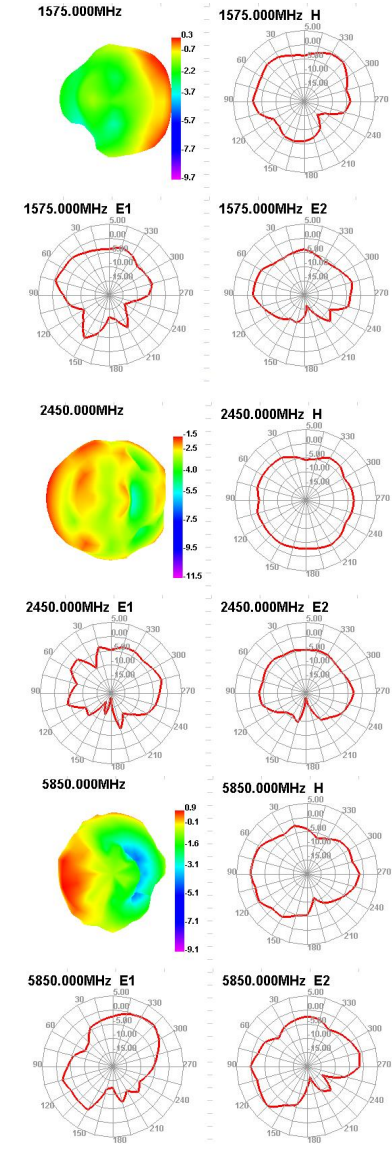
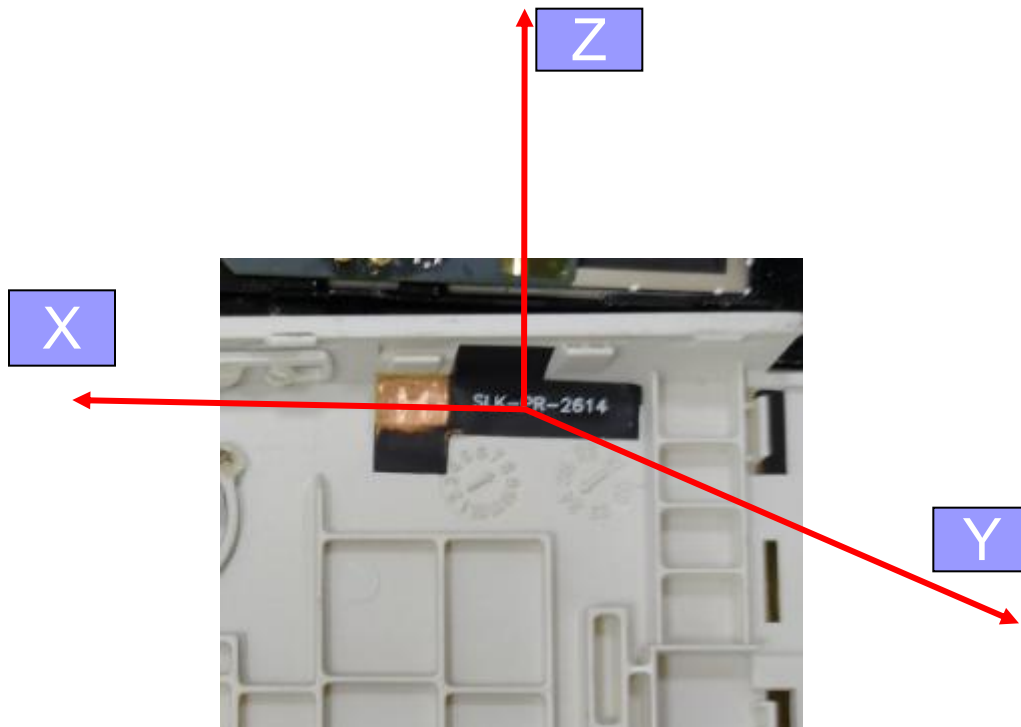
2. Test Result

2.2 WIFI/GPS Antenna Gain/Efficiency/3D DATE

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1570	38.72	-4.12	0.58
1575	36.08	-4.43	0.32
1580	37.44	-4.27	0.53
2400	36.82	-4.34	-1.47
2410	31.96	-4.95	-1.95
2420	36.19	-4.41	-1.35
2430	32.8	-4.84	-1.84
2440	36.39	-4.39	-1.44
2450	34.41	-4.63	-1.47
2460	37	-4.32	-0.89
2470	33.43	-4.76	-1.69
2480	33.56	-4.74	-1.2
2490	32.54	-4.88	-1.15
2500	33.98	-4.69	-1.25
5150	41.2	-3.85	0.55
5250	38.69	-4.12	0.27
5550	41.5	-3.82	0.75
5750	43.21	-3.64	0.63
5850	45.01	-3.47	0.91

2. Test Result

2.2 WIFI/GPS Antenna Gain/Efficiency/3D DATE



2. Test Result

2.3 WIFI throughput test

[4]	8.01-9.00	sec	6.62 MBytes	56.1 Mbits/sec
[4]	9.00-10.00	sec	6.88 MBytes	57.7 Mbits/sec
[4]	10.00-11.00	sec	6.88 MBytes	57.7 Mbits/sec
[4]	11.00-12.00	sec	7.12 MBytes	59.8 Mbits/sec
[4]	12.00-13.00	sec	7.25 MBytes	60.8 Mbits/sec
[4]	13.00-14.00	sec	7.12 MBytes	59.8 Mbits/sec
[4]	14.00-15.00	sec	7.00 MBytes	58.8 Mbits/sec
[4]	15.00-16.00	sec	7.00 MBytes	58.7 Mbits/sec
[4]	16.00-17.00	sec	7.00 MBytes	58.7 Mbits/sec
[4]	17.00-18.00	sec	7.00 MBytes	58.7 Mbits/sec
[4]	18.00-19.00	sec	7.12 MBytes	59.7 Mbits/sec
[4]	19.00-20.00	sec	6.88 MBytes	57.7 Mbits/sec
[4]	20.00-21.00	sec	7.25 MBytes	60.8 Mbits/sec
[4]	21.00-22.00	sec	7.50 MBytes	62.9 Mbits/sec
[4]	22.00-23.00	sec	5.38 MBytes	45.1 Mbits/sec
[4]	23.00-24.00	sec	6.88 MBytes	57.6 Mbits/sec
[4]	24.00-25.00	sec	7.62 MBytes	63.9 Mbits/sec
[4]	25.00-26.00	sec	7.50 MBytes	62.9 Mbits/sec
[4]	26.00-27.00	sec	7.62 MBytes	64.0 Mbits/sec
[4]	27.00-28.00	sec	7.50 MBytes	62.9 Mbits/sec
[4]	28.00-29.00	sec	7.75 MBytes	65.0 Mbits/sec
[4]	29.00-30.00	sec	7.62 MBytes	63.9 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	210 MBytes	58.6 Mbits/sec
[4]	0.00-30.00	sec	209 MBytes	58.4 Mbits/sec

iperf Done.

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[4]	8.00-9.00	sec	3.95 MBytes	33.1 Mbits/sec
[4]	9.00-10.00	sec	4.35 MBytes	36.5 Mbits/sec
[4]	10.00-11.00	sec	4.12 MBytes	34.6 Mbits/sec
[4]	11.00-12.00	sec	3.46 MBytes	29.0 Mbits/sec
[4]	12.00-13.00	sec	4.30 MBytes	36.1 Mbits/sec
[4]	13.00-14.00	sec	4.49 MBytes	37.5 Mbits/sec
[4]	14.00-15.00	sec	4.19 MBytes	35.3 Mbits/sec
[4]	15.00-16.00	sec	4.04 MBytes	33.8 Mbits/sec
[4]	16.00-17.00	sec	3.93 MBytes	33.0 Mbits/sec
[4]	17.00-18.00	sec	4.07 MBytes	34.1 Mbits/sec
[4]	18.00-19.00	sec	4.26 MBytes	35.6 Mbits/sec
[4]	19.00-20.00	sec	3.96 MBytes	33.4 Mbits/sec
[4]	20.00-21.00	sec	3.94 MBytes	33.0 Mbits/sec
[4]	21.00-22.01	sec	3.27 MBytes	27.3 Mbits/sec
[4]	22.01-23.00	sec	3.58 MBytes	30.2 Mbits/sec
[4]	23.00-24.00	sec	3.75 MBytes	31.5 Mbits/sec
[4]	24.00-25.00	sec	3.90 MBytes	32.7 Mbits/sec
[4]	25.00-26.00	sec	4.20 MBytes	35.2 Mbits/sec
[4]	26.00-27.00	sec	3.59 MBytes	30.1 Mbits/sec
[4]	27.00-28.00	sec	3.84 MBytes	32.2 Mbits/sec
[4]	28.00-29.00	sec	4.13 MBytes	34.7 Mbits/sec
[4]	29.00-30.00	sec	4.12 MBytes	34.6 Mbits/sec

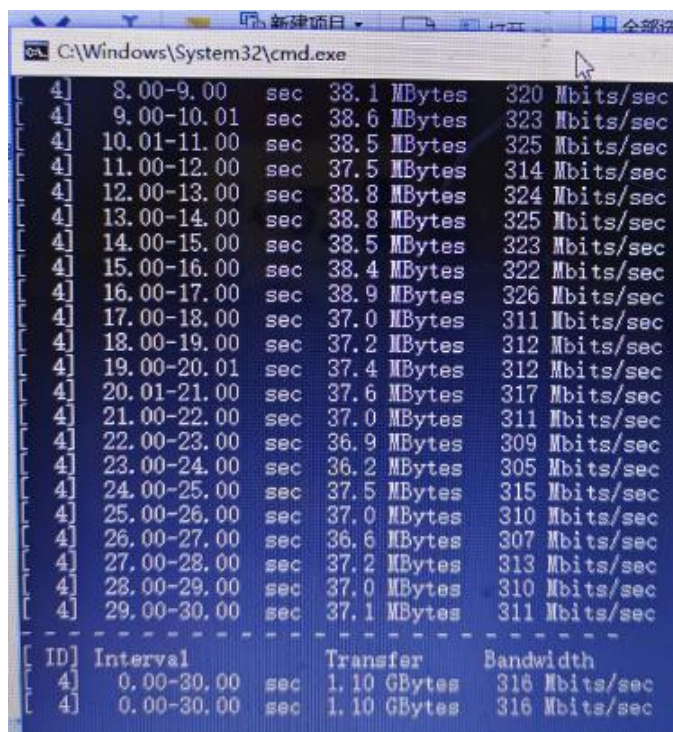
[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	119 MBytes	33.2 Mbits/sec
[4]	0.00-30.00	sec	119 MBytes	33.2 Mbits/sec

iperf Done.

2.4G十米上传

2. Test Result

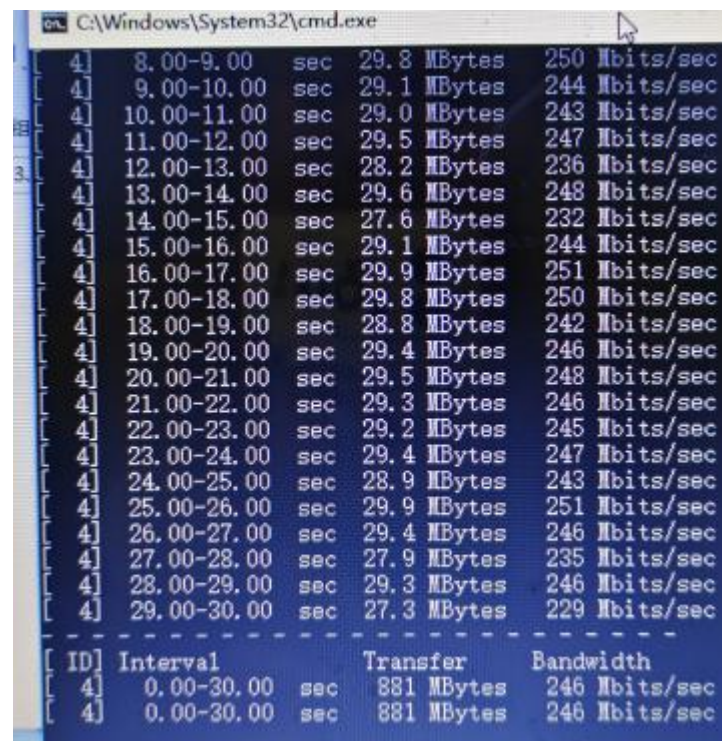
2.3 WIFI throughput test



[4]	8.00-9.00	sec	38.1 MBytes	320 Mbits/sec
[4]	9.00-10.01	sec	38.6 MBytes	323 Mbits/sec
[4]	10.01-11.00	sec	38.5 MBytes	325 Mbits/sec
[4]	11.00-12.00	sec	37.5 MBytes	314 Mbits/sec
[4]	12.00-13.00	sec	38.8 MBytes	324 Mbits/sec
[4]	13.00-14.00	sec	38.8 MBytes	325 Mbits/sec
[4]	14.00-15.00	sec	38.5 MBytes	323 Mbits/sec
[4]	15.00-16.00	sec	38.4 MBytes	322 Mbits/sec
[4]	16.00-17.00	sec	38.9 MBytes	326 Mbits/sec
[4]	17.00-18.00	sec	37.0 MBytes	311 Mbits/sec
[4]	18.00-19.00	sec	37.2 MBytes	312 Mbits/sec
[4]	19.00-20.01	sec	37.4 MBytes	312 Mbits/sec
[4]	20.01-21.00	sec	37.6 MBytes	317 Mbits/sec
[4]	21.00-22.00	sec	37.0 MBytes	311 Mbits/sec
[4]	22.00-23.00	sec	36.9 MBytes	309 Mbits/sec
[4]	23.00-24.00	sec	36.2 MBytes	305 Mbits/sec
[4]	24.00-25.00	sec	37.5 MBytes	315 Mbits/sec
[4]	25.00-26.00	sec	37.0 MBytes	310 Mbits/sec
[4]	26.00-27.00	sec	36.6 MBytes	307 Mbits/sec
[4]	27.00-28.00	sec	37.2 MBytes	313 Mbits/sec
[4]	28.00-29.00	sec	37.0 MBytes	310 Mbits/sec
[4]	29.00-30.00	sec	37.1 MBytes	311 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	1.10 GBytes	316 Mbits/sec
[4]	0.00-30.00	sec	1.10 GBytes	316 Mbits/sec

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[4]	8.00-9.00	sec	29.8 MBytes	250 Mbits/sec
[4]	9.00-10.00	sec	29.1 MBytes	244 Mbits/sec
[4]	10.00-11.00	sec	29.0 MBytes	243 Mbits/sec
[4]	11.00-12.00	sec	29.5 MBytes	247 Mbits/sec
[4]	12.00-13.00	sec	28.2 MBytes	236 Mbits/sec
[4]	13.00-14.00	sec	29.6 MBytes	248 Mbits/sec
[4]	14.00-15.00	sec	27.6 MBytes	232 Mbits/sec
[4]	15.00-16.00	sec	29.1 MBytes	244 Mbits/sec
[4]	16.00-17.00	sec	29.9 MBytes	251 Mbits/sec
[4]	17.00-18.00	sec	29.8 MBytes	250 Mbits/sec
[4]	18.00-19.00	sec	28.8 MBytes	242 Mbits/sec
[4]	19.00-20.00	sec	29.4 MBytes	246 Mbits/sec
[4]	20.00-21.00	sec	29.5 MBytes	248 Mbits/sec
[4]	21.00-22.00	sec	29.3 MBytes	246 Mbits/sec
[4]	22.00-23.00	sec	29.2 MBytes	245 Mbits/sec
[4]	23.00-24.00	sec	29.4 MBytes	247 Mbits/sec
[4]	24.00-25.00	sec	28.9 MBytes	243 Mbits/sec
[4]	25.00-26.00	sec	29.9 MBytes	251 Mbits/sec
[4]	26.00-27.00	sec	29.4 MBytes	246 Mbits/sec
[4]	27.00-28.00	sec	27.9 MBytes	235 Mbits/sec
[4]	28.00-29.00	sec	29.3 MBytes	246 Mbits/sec
[4]	29.00-30.00	sec	27.3 MBytes	229 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	881 MBytes	246 Mbits/sec
[4]	0.00-30.00	sec	881 MBytes	246 Mbits/sec

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2. Test Result

2.4 GPS test

GPS实际测试



3. Conclusions

谢谢！