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Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Shenzhen Dianyue Technology Co., Ltd.

Project: N16U2-TU

Product: WIFI

Report date: 2025-2-11

Prepared by :

Checked by :

Approved by :



Purpose

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

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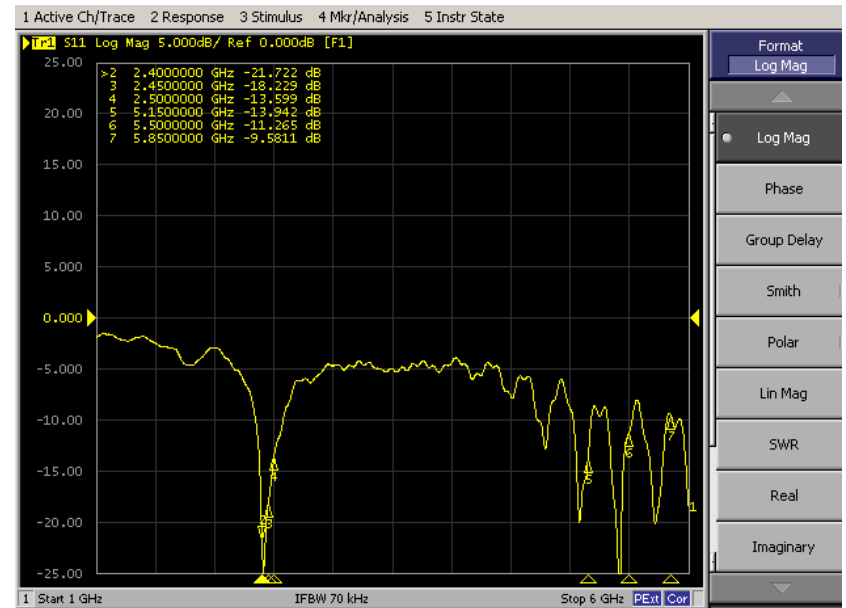
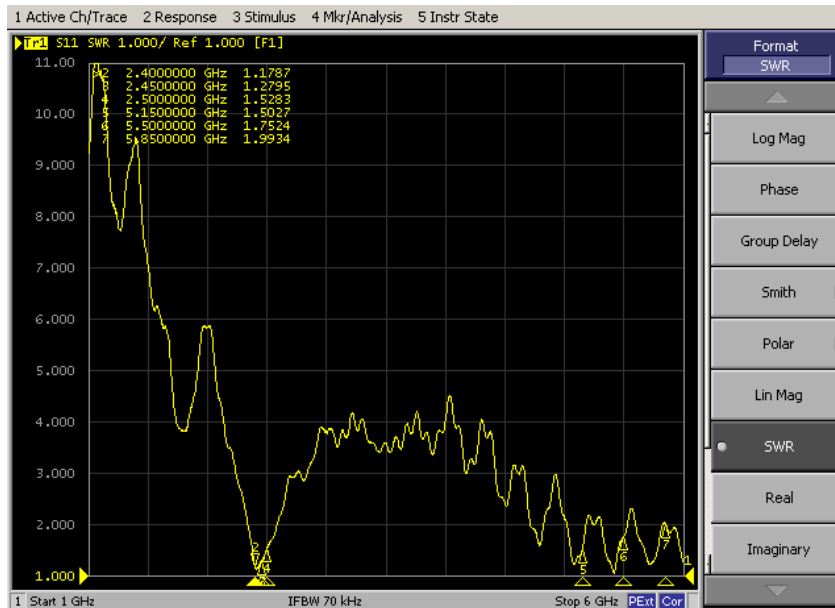
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1. Product Overview



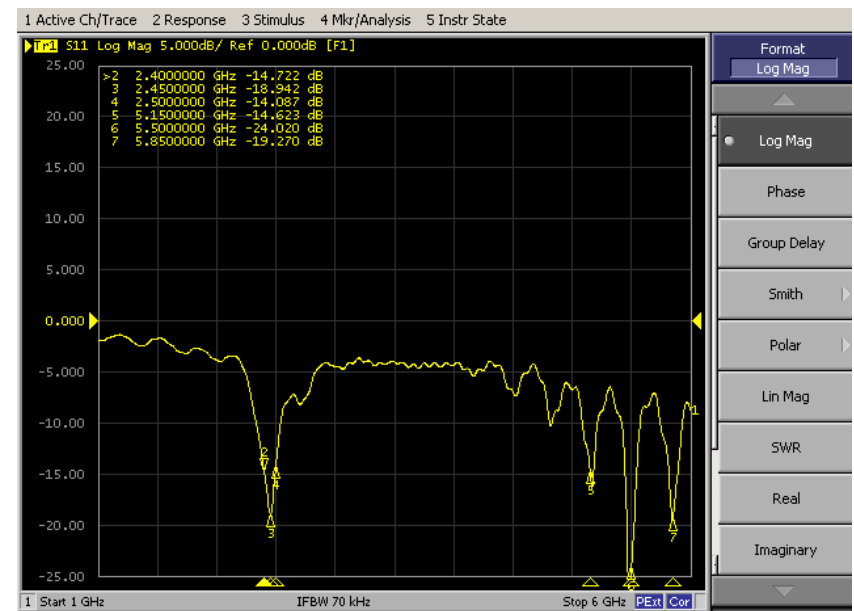
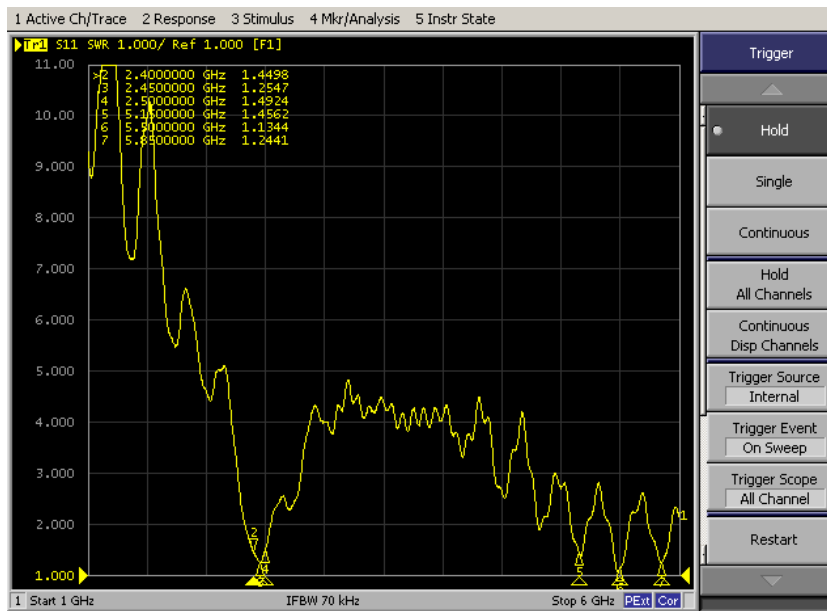
2. Test Result

2.1 WIFI MAIN Antenna VSWR



2. Test Result

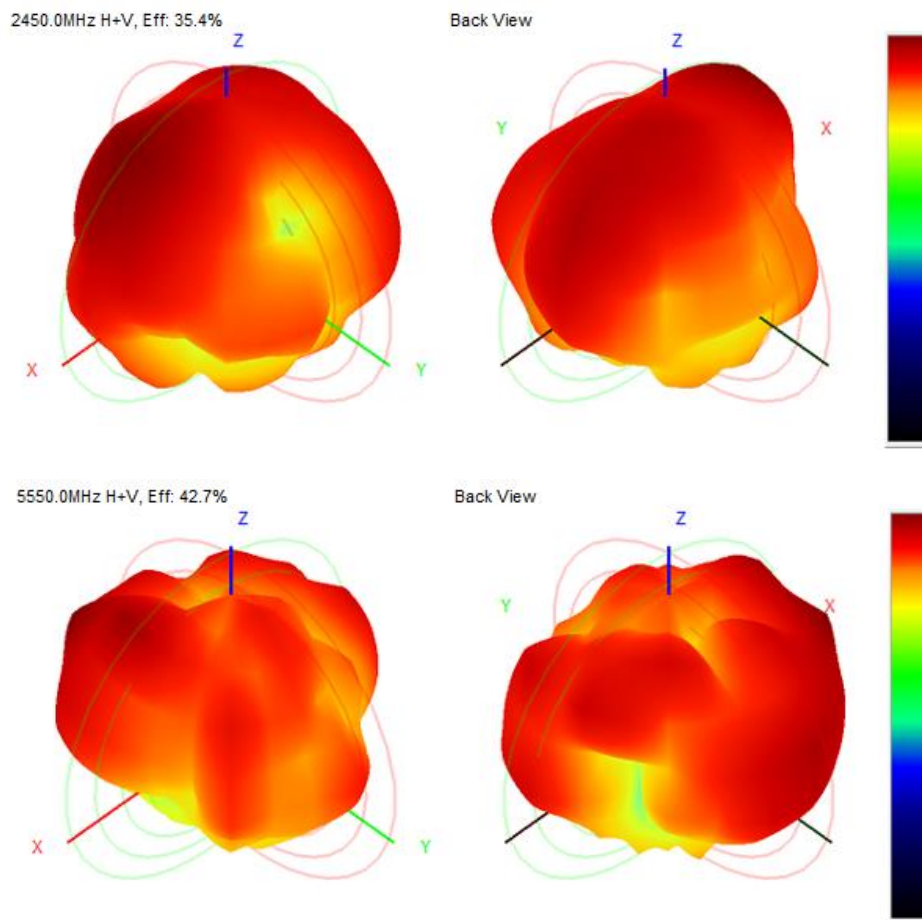
2.1 WIFI AUX Antenna VSWR



2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

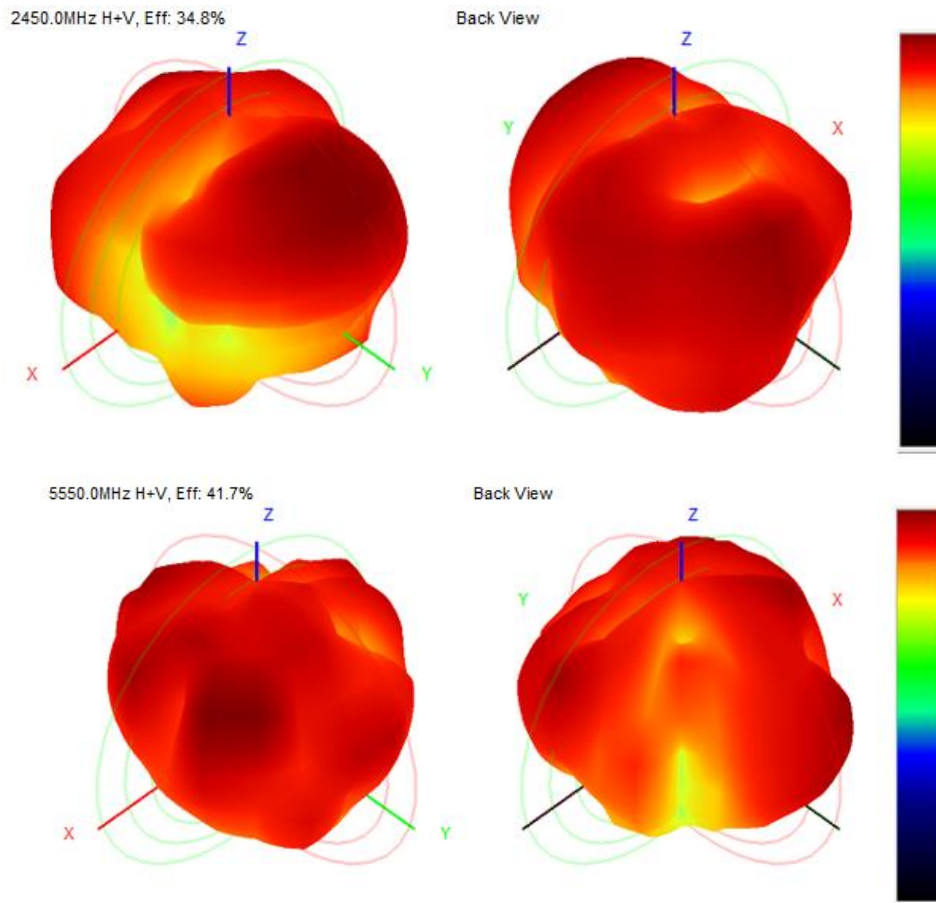
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-2.27	1.71	34.23
2410	-2.21	1.69	34.08
2420	-1.93	1.31	34.08
2430	-2.04	1.42	32.54
2440	-2.15	1.47	35.99
2450	-2.26	1.25	35.38
2460	-2.09	1.20	34.87
2470	-2.33	1.89	34.45
2480	-2.27	1.90	33.35
2490	-2.19	1.93	35.44
2500	-2.22	1.87	35.93
5150	-3.66	2.88	43.07
5350	-3.52	2.44	42.47
5550	-3.40	2.71	42.66
5850	-2.95	2.57	43.75



2. Test Result

2.2 WIFI AUX Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-5.37	1.31	35.03
2410	-5.26	1.57	35.80
2420	-5.31	1.35	35.42
2430	-4.90	1.69	36.35
2440	-4.94	1.64	34.04
2450	-4.84	1.98	34.79
2460	-4.92	1.75	34.23
2470	-4.71	1.97	33.77
2480	-4.28	1.50	35.29
2490	-4.00	1.02	35.84
2500	-3.97	1.08	36.13
5150	-3.17	2.88	40.21
5350	-3.55	2.65	41.15
5550	-4.12	2.18	41.71
5850	-2.64	2.65	40.45



2. Test Result

2.3 WIFI throughput test

```
C:\iperf-3.1.3-win64>iperf3 -c 192.168.0.100 -i 1 -t 30 -
Connecting to host 192.168.0.100, port 5201
[ 4] local 192.168.0.102 port 61075 connected to 192.168.0.100
[ ID] Interval      Transfer  Bandwidth
[ 4] 0.00-1.00 sec  9.75 MBytes  81.7 Mbits/sec
[ 4] 1.00-2.00 sec  8.25 MBytes  69.2 Mbits/sec
[ 4] 2.00-3.01 sec  11.2 MBytes  93.9 Mbits/sec
[ 4] 3.01-4.01 sec  9.25 MBytes  77.5 Mbits/sec
[ 4] 4.01-5.01 sec  10.0 MBytes  83.6 Mbits/sec
[ 4] 5.01-6.00 sec  9.25 MBytes  78.4 Mbits/sec
[ 4] 6.00-7.01 sec  9.50 MBytes  79.0 Mbits/sec
[ 4] 7.01-8.01 sec  11.8 MBytes  98.8 Mbits/sec
[ 4] 8.01-9.00 sec  10.4 MBytes  87.5 Mbits/sec
[ 4] 9.00-10.01 sec  10.8 MBytes  89.5 Mbits/sec
[ 4] 10.01-11.01 sec  11.2 MBytes  94.4 Mbits/sec
[ 4] 11.01-12.01 sec  11.2 MBytes  94.5 Mbits/sec
[ 4] 12.01-13.00 sec  9.88 MBytes  83.2 Mbits/sec
[ 4] 13.00-14.01 sec  10.9 MBytes  90.9 Mbits/sec
[ 4] 14.01-15.00 sec  11.2 MBytes  94.8 Mbits/sec
[ 4] 15.00-16.00 sec  11.6 MBytes  97.4 Mbits/sec
[ 4] 16.00-17.00 sec  11.0 MBytes  92.2 Mbits/sec
[ 4] 17.00-18.00 sec  11.5 MBytes  96.8 Mbits/sec
[ 4] 18.00-19.00 sec  11.4 MBytes  95.3 Mbits/sec
[ 4] 19.00-20.00 sec  11.1 MBytes  93.2 Mbits/sec
[ 4] 20.00-21.01 sec  9.25 MBytes  76.9 Mbits/sec
[ 4] 21.01-22.00 sec  9.50 MBytes  80.3 Mbits/sec
[ 4] 22.00-23.01 sec  9.12 MBytes  75.8 Mbits/sec
[ 4] 23.01-24.02 sec  10.6 MBytes  89.0 Mbits/sec
[ 4] 24.02-25.01 sec  11.2 MBytes  95.3 Mbits/sec
[ 4] 25.01-26.01 sec  10.9 MBytes  91.0 Mbits/sec
[ 4] 26.01-27.01 sec  10.6 MBytes  89.3 Mbits/sec
[ 4] 27.01-28.00 sec  11.0 MBytes  92.8 Mbits/sec
[ 4] 28.00-29.01 sec  10.6 MBytes  88.5 Mbits/sec
[ 4] 29.01-30.00 sec  10.8 MBytes  90.8 Mbits/sec
[ ID] Interval      Transfer  Bandwidth
[ 4] 0.00-30.00 sec  315 MBytes  88.0 Mbits/sec
[ 4] 0.00-30.00 sec  315 MBytes  88.0 Mbits/sec
```

2.4G Download

```
C:\iperf-3.1.3-win64>iperf3 -c 192.168.0.100 -i 1 -t 30 -
Connecting to host 192.168.0.100, port 5201
Reverse mode, remote host 192.168.0.100 is sending
[ 4] local 192.168.0.102 port 61050 connected to 192.168.0.100
[ ID] Interval      Transfer  Bandwidth
[ 4] 0.00-1.00 sec  7.04 MBytes  59.0 Mbits/sec
[ 4] 1.00-2.00 sec  9.33 MBytes  78.3 Mbits/sec
[ 4] 2.00-3.00 sec  9.61 MBytes  80.6 Mbits/sec
[ 4] 3.00-4.00 sec  9.81 MBytes  82.3 Mbits/sec
[ 4] 4.00-5.00 sec  9.94 MBytes  83.4 Mbits/sec
[ 4] 5.00-6.00 sec  9.65 MBytes  80.9 Mbits/sec
[ 4] 6.00-7.00 sec  9.77 MBytes  81.7 Mbits/sec
[ 4] 7.00-8.00 sec  9.14 MBytes  76.9 Mbits/sec
[ 4] 8.00-9.00 sec  8.79 MBytes  73.7 Mbits/sec
[ 4] 9.00-10.00 sec  9.66 MBytes  81.0 Mbits/sec
[ 4] 10.00-11.00 sec  8.69 MBytes  72.9 Mbits/sec
[ 4] 11.00-12.00 sec  9.64 MBytes  80.9 Mbits/sec
[ 4] 12.00-13.00 sec  9.81 MBytes  82.3 Mbits/sec
[ 4] 13.00-14.00 sec  9.76 MBytes  81.8 Mbits/sec
[ 4] 14.00-15.00 sec  10.2 MBytes  85.4 Mbits/sec
[ 4] 15.00-16.00 sec  7.02 MBytes  58.8 Mbits/sec
[ 4] 16.00-17.00 sec  8.56 MBytes  71.7 Mbits/sec
[ 4] 17.00-18.00 sec  9.80 MBytes  82.4 Mbits/sec
[ 4] 18.00-19.00 sec  9.79 MBytes  82.1 Mbits/sec
[ 4] 19.00-20.00 sec  9.78 MBytes  82.1 Mbits/sec
[ 4] 20.00-21.00 sec  9.71 MBytes  81.5 Mbits/sec
[ 4] 21.00-22.00 sec  9.89 MBytes  83.0 Mbits/sec
[ 4] 22.00-23.00 sec  9.70 MBytes  81.4 Mbits/sec
[ 4] 23.00-24.00 sec  8.99 MBytes  75.4 Mbits/sec
[ 4] 24.00-25.00 sec  8.90 MBytes  74.6 Mbits/sec
[ 4] 25.00-26.00 sec  9.52 MBytes  79.9 Mbits/sec
[ 4] 26.00-27.00 sec  10.4 MBytes  87.6 Mbits/sec
[ 4] 27.00-28.00 sec  10.0 MBytes  84.1 Mbits/sec
[ 4] 28.00-29.00 sec  9.55 MBytes  80.0 Mbits/sec
[ 4] 29.00-30.00 sec  9.70 MBytes  81.5 Mbits/sec
[ ID] Interval      Transfer  Bandwidth
[ 4] 0.00-30.00 sec  282 MBytes  79.0 Mbits/sec
[ 4] 0.00-30.00 sec  282 MBytes  79.0 Mbits/sec
```

2.4G Upload

2. Test Result

2.3 WIFI throughput test

ID	Interval	sec	Transfer	Bandwidth
4	8.00-9.00	sec	32.6 MBytes	274 Mbits/sec
4	9.00-10.00	sec	27.6 MBytes	232 Mbits/sec
4	10.00-11.00	sec	31.2 MBytes	262 Mbits/sec
4	11.00-12.00	sec	31.6 MBytes	265 Mbits/sec
4	12.00-13.00	sec	33.2 MBytes	278 Mbits/sec
4	13.00-14.00	sec	32.9 MBytes	277 Mbits/sec
4	14.00-15.00	sec	31.4 MBytes	262 Mbits/sec
4	15.00-16.01	sec	29.9 MBytes	250 Mbits/sec
4	16.01-17.00	sec	33.5 MBytes	283 Mbits/sec
4	17.00-18.00	sec	33.2 MBytes	278 Mbits/sec
4	18.00-19.00	sec	33.9 MBytes	284 Mbits/sec
4	19.00-20.00	sec	32.5 MBytes	273 Mbits/sec
4	20.00-21.00	sec	32.5 MBytes	273 Mbits/sec
4	21.00-22.00	sec	30.1 MBytes	253 Mbits/sec
4	22.00-23.00	sec	32.8 MBytes	274 Mbits/sec
4	23.00-24.00	sec	32.0 MBytes	269 Mbits/sec
4	24.00-25.00	sec	33.0 MBytes	277 Mbits/sec
4	25.00-26.00	sec	33.0 MBytes	276 Mbits/sec
4	26.00-27.01	sec	31.9 MBytes	266 Mbits/sec
4	27.01-28.00	sec	32.6 MBytes	275 Mbits/sec
4	28.00-29.01	sec	32.4 MBytes	270 Mbits/sec
4	29.01-30.00	sec	32.1 MBytes	271 Mbits/sec

ID	Interval	sec	Transfer	Bandwidth
4	0.00-30.00	sec	963 MBytes	269 Mbits/sec
4	0.00-30.00	sec	963 MBytes	269 Mbits/sec

5G Download

ID	Interval	sec	Transfer	Bandwidth
4	0.00-1.02	sec	26.9 MBytes	222 Mbits/sec
4	1.02-2.00	sec	25.8 MBytes	220 Mbits/sec
4	2.00-3.00	sec	27.3 MBytes	229 Mbits/sec
4	3.00-4.00	sec	27.1 MBytes	227 Mbits/sec
4	4.00-5.00	sec	26.8 MBytes	225 Mbits/sec
4	5.00-6.00	sec	25.7 MBytes	215 Mbits/sec
4	6.00-7.00	sec	26.3 MBytes	220 Mbits/sec
4	7.00-8.00	sec	25.7 MBytes	215 Mbits/sec
4	8.00-9.00	sec	24.8 MBytes	208 Mbits/sec
4	9.00-10.00	sec	25.1 MBytes	210 Mbits/sec
4	10.00-11.00	sec	22.6 MBytes	190 Mbits/sec
4	11.00-12.00	sec	29.4 MBytes	247 Mbits/sec
4	12.00-13.00	sec	30.2 MBytes	253 Mbits/sec
4	13.00-14.00	sec	29.9 MBytes	250 Mbits/sec
4	14.00-15.00	sec	29.4 MBytes	248 Mbits/sec
4	15.00-16.00	sec	30.0 MBytes	252 Mbits/sec
4	16.00-17.00	sec	29.4 MBytes	246 Mbits/sec
4	17.00-18.00	sec	29.3 MBytes	246 Mbits/sec
4	18.00-19.00	sec	29.7 MBytes	249 Mbits/sec
4	19.00-20.00	sec	28.9 MBytes	243 Mbits/sec
4	20.00-21.00	sec	28.7 MBytes	243 Mbits/sec
4	21.00-22.00	sec	29.9 MBytes	241 Mbits/sec
4	22.00-23.00	sec	29.9 MBytes	251 Mbits/sec
4	23.00-24.00	sec	28.4 MBytes	238 Mbits/sec
4	24.00-25.00	sec	28.8 MBytes	241 Mbits/sec
4	25.00-26.00	sec	29.6 MBytes	249 Mbits/sec
4	26.00-27.00	sec	29.5 MBytes	249 Mbits/sec
4	27.00-28.00	sec	29.8 MBytes	247 Mbits/sec
4	28.00-29.00	sec	29.8 MBytes	250 Mbits/sec
4	29.00-30.00	sec	29.3 MBytes	246 Mbits/sec
4	29.00-30.00	sec	29.7 MBytes	250 Mbits/sec
4	29.00-30.00	sec	29.9 MBytes	251 Mbits/sec

ID	Interval	sec	Transfer	Bandwidth
4	0.00-30.00	sec	844 MBytes	236 Mbits/sec
4	0.00-30.00	sec	844 MBytes	236 Mbits/sec

5G Upload



3. Conclusions

Thanks !