

Shenzhen Yishengbang Technology Co., LTD

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Ployer

Project: 10 inch tablet P2

Product: 4G WIFI +GPS Antenna

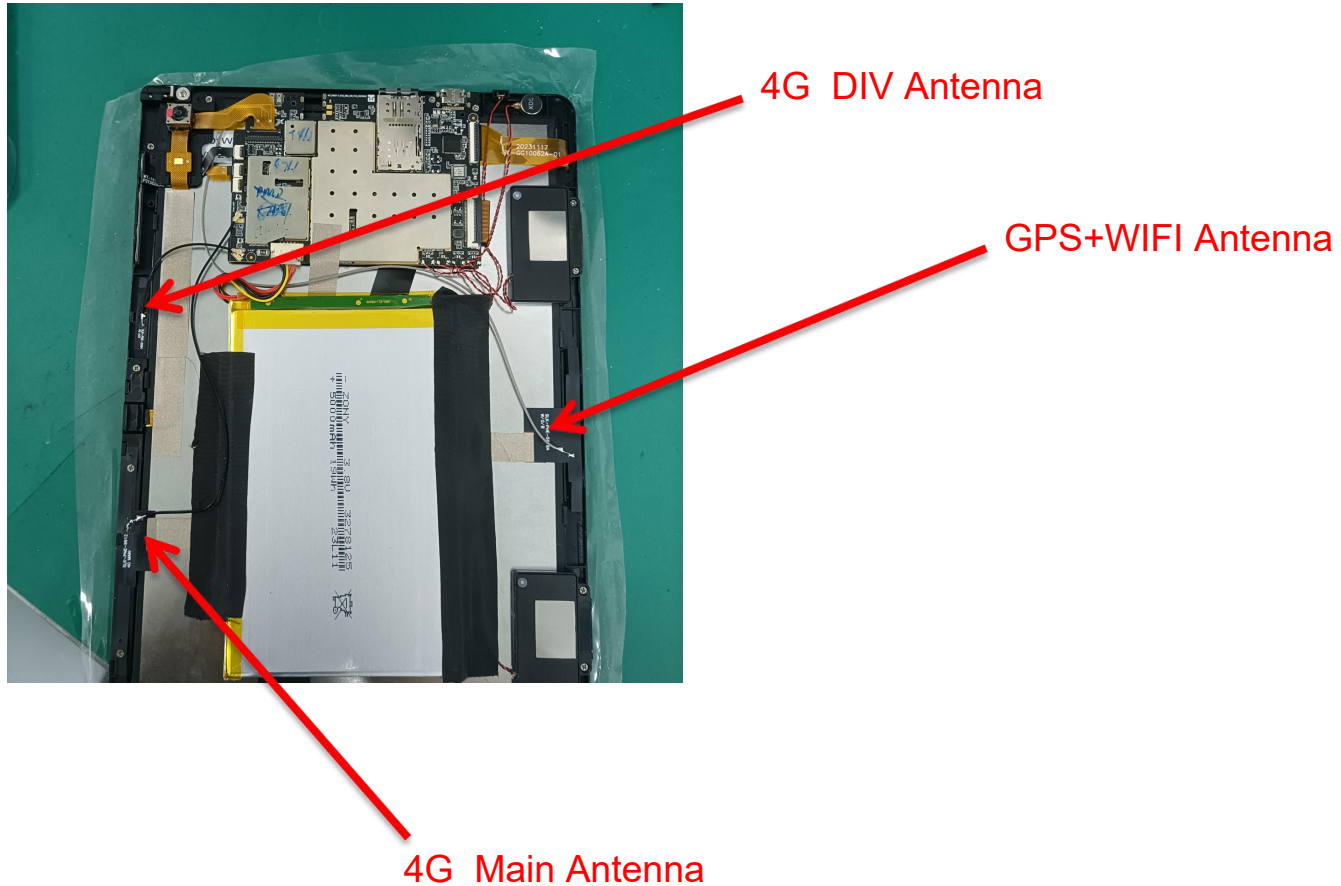
Report date: 2023.12.23

Prepared by : luo tao

Checked by : Eason Huang

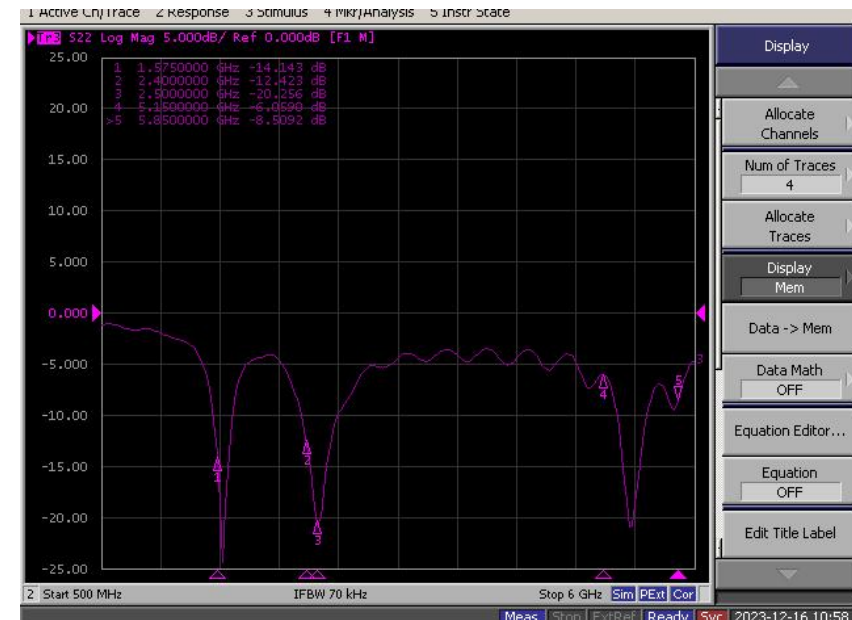
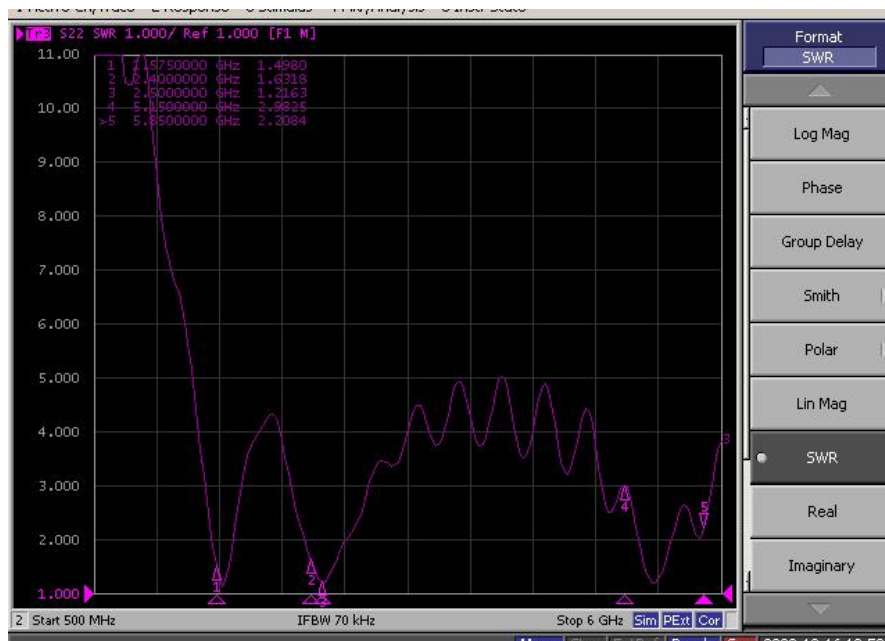
Approved by : lin mei cai

1. Product Overview & Dimension



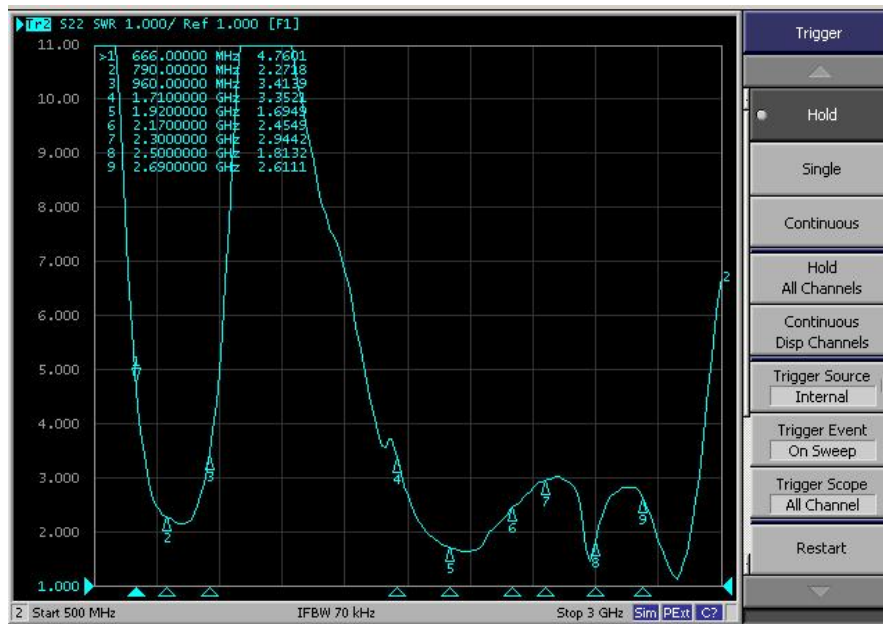
2. Test Result

2.1 VSWR/S11 (WIFI+GPS)



2. Test Result

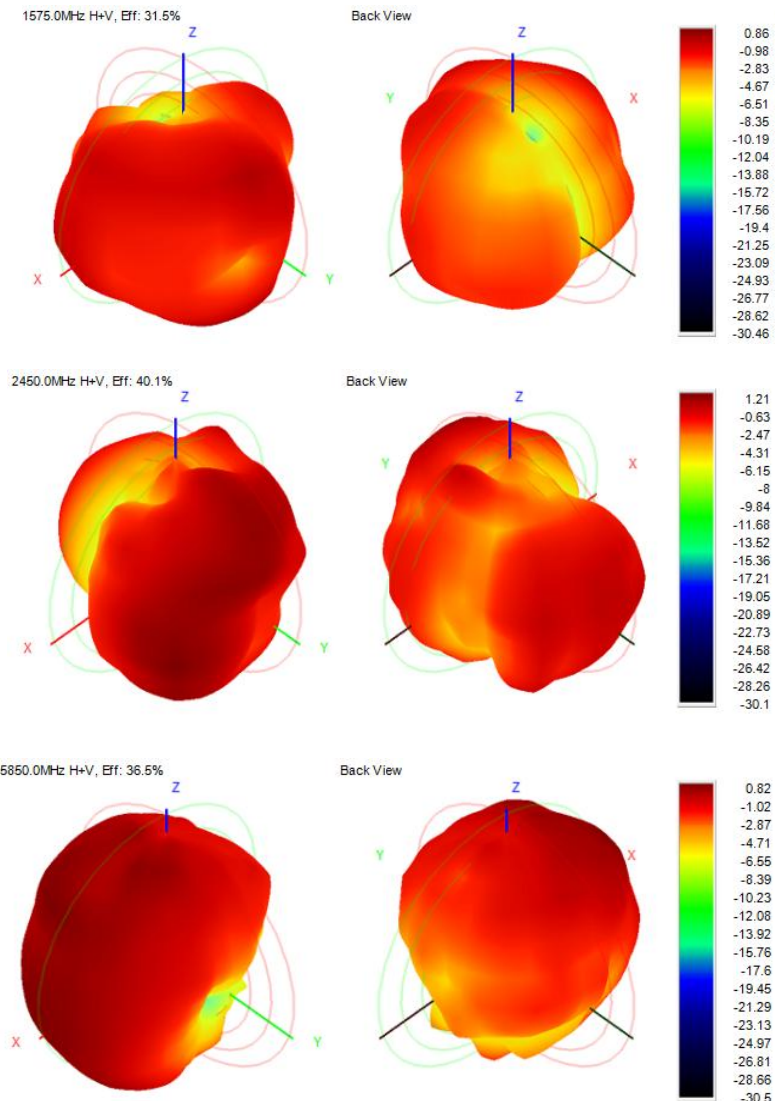
2.1 MAIN VSWR/S11 (MAIN)



2. Test Result

2.2WIFI+GPS

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-5.39	0.35	28.90	2400.0	-4.06	1.44	39.25
1571.0	-5.32	0.43	29.38	2410.0	-3.96	1.42	40.18
1572.0	-5.25	0.52	29.86	2420.0	-3.89	1.31	40.82
1573.0	-5.18	0.66	30.35	2430.0	-3.79	1.36	41.80
1574.0	-5.11	0.71	30.86	2440.0	-3.90	1.02	40.72
1575.0	-5.02	0.86	31.46	2450.0	-3.96	1.21	40.14
1576.0	-5.03	0.83	31.40	2460.0	-4.23	0.84	37.74
1577.0	-5.04	0.81	31.30	2470.0	-4.07	1.02	39.16
1578.0	-5.06	0.80	31.21	2480.0	-3.89	1.28	40.83
1579.0	-5.07	0.74	31.10	2490.0	-3.95	1.27	40.30
1580.0	-5.09	0.70	31.00	2500.0	-4.17	0.65	38.28
				5150.0	-5.14	-0.59	30.65
				5250.0	-4.91	0.08	32.28
				5550.0	-4.23	1.50	37.80
				5750.0	-4.26	1.18	37.52
				5850.0	-4.37	0.82	36.53



2.3 Test Result

2 3 4G+WIFI Antenna Active data

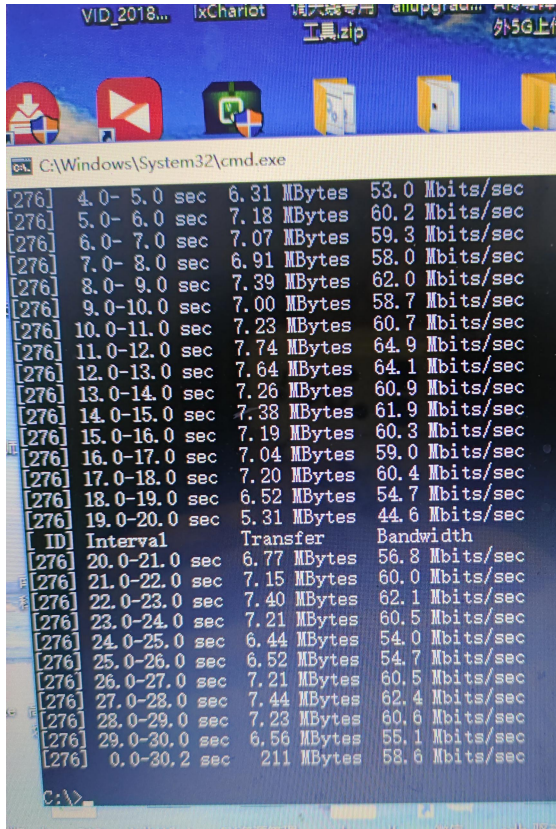
4G频段	LTE-L	LTE-M	LTE-R	TIS
LTE-2	17.71	17.59	17.16	-91.28
LTE-4	17.42	17.33	17.74	-91.56
LTE-5	16.36	16.86	16.05	-92.55
LTE-7	17.27	17.55	17.89	-91.94
LTE-12	15.93	15.18	15.09	-90.63
LTE-17	15.98	15.6	15.58	-90.4
LTE-41	17.5	17.1	17.61	-89.94
LTE-66	17.62	17.39	17.01	-91.67
LTE-71	15.34	15.29	15.73	-88.65
2G频段	LTE-L	LTE-M	LTE-R	TIS
GSM850	25.32	26.05	25.8	-103.02
GSM900	25.41	25.66	25.79	-103.09
GSM1800	24.15	24.83	24.81	-102.32
GSM1900	24.67	24.33	24.34	-102.43
3G频段	LTE-L	LTE-M	LTE-R	TIS
WCDMA-B2	16.33	16.28	16.19	-102.35
WCDMA-B4	16.48	16.69	16.82	-103.02
WCDMA-B5	15.02	15.17	15.23	-102.87

B-11Mbps			G-54Mbps		
	TRP	TIS		TRP	TIS
1	13.59	-81	1	11.76	-70.84
6	13.96	-81.75	6	12.18	-70.03
13	13.17	-81.96	13	12.17	-70.62
N-MCS7			A-54Mbps		
	TRP	TIS		TRP	TIS
1	11.7	-65.63	36	9.5	-70.05
6	11.94	-65.34	100	9.36	-70.69
13	12.12	-65.72	161	8.01	-70.37

External Antenna		
A-54Mbps		
	TRP	TIS
36	11.75	-73.05
149	11.53	-73.69
165	10.26	-73.37

4.1 Test Result

2.4GWIFI throughput



A screenshot of a Windows command prompt window titled "C:\Windows\System32\cmd.exe". It displays the output of a network speed test, showing a series of 1-second intervals with transfer and bandwidth data. The final summary line shows a total of 211 MBytes transferred at 58.6 Mbits/sec over a 30.2-second interval.

ID	Interval	Transfer	Bandwidth
[276]	4.0- 5.0 sec	6.31 MBytes	53.0 Mbits/sec
[276]	5.0- 6.0 sec	7.18 MBytes	60.2 Mbits/sec
[276]	6.0- 7.0 sec	7.07 MBytes	59.3 Mbits/sec
[276]	7.0- 8.0 sec	6.91 MBytes	58.0 Mbits/sec
[276]	8.0- 9.0 sec	7.39 MBytes	62.0 Mbits/sec
[276]	9.0-10.0 sec	7.00 MBytes	58.7 Mbits/sec
[276]	10.0-11.0 sec	7.23 MBytes	60.7 Mbits/sec
[276]	11.0-12.0 sec	7.74 MBytes	64.9 Mbits/sec
[276]	12.0-13.0 sec	7.64 MBytes	64.1 Mbits/sec
[276]	13.0-14.0 sec	7.26 MBytes	60.9 Mbits/sec
[276]	14.0-15.0 sec	7.38 MBytes	61.9 Mbits/sec
[276]	15.0-16.0 sec	7.19 MBytes	60.3 Mbits/sec
[276]	16.0-17.0 sec	7.04 MBytes	59.0 Mbits/sec
[276]	17.0-18.0 sec	7.20 MBytes	60.4 Mbits/sec
[276]	18.0-19.0 sec	6.52 MBytes	54.7 Mbits/sec
[276]	19.0-20.0 sec	5.31 MBytes	44.6 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	6.77 MBytes	56.8 Mbits/sec
[276]	21.0-22.0 sec	7.15 MBytes	60.0 Mbits/sec
[276]	22.0-23.0 sec	7.40 MBytes	62.1 Mbits/sec
[276]	23.0-24.0 sec	7.21 MBytes	60.5 Mbits/sec
[276]	24.0-25.0 sec	6.44 MBytes	54.0 Mbits/sec
[276]	25.0-26.0 sec	6.52 MBytes	54.7 Mbits/sec
[276]	26.0-27.0 sec	7.21 MBytes	60.5 Mbits/sec
[276]	27.0-28.0 sec	7.44 MBytes	62.4 Mbits/sec
[276]	28.0-29.0 sec	7.23 MBytes	60.6 Mbits/sec
[276]	29.0-30.0 sec	6.56 MBytes	55.1 Mbits/sec
[276]	0.0-30.2 sec	211 MBytes	58.6 Mbits/sec

2.4G download



A screenshot of a command prompt window showing network test results. It includes a warning about the TCP window size and a detailed table of 1-second intervals. The final summary line shows a total of 172 MBytes transferred at 47.8 Mbits/sec over a 30.1-second interval.

ID	Interval	Transfer	Bandwidth
[3]	0.0- 1.0 sec	6.62 MBytes	55.6 Mbits/sec
[3]	1.0- 2.0 sec	5.00 MBytes	41.9 Mbits/sec
[3]	2.0- 3.0 sec	5.88 MBytes	49.3 Mbits/sec
[3]	3.0- 4.0 sec	5.12 MBytes	43.0 Mbits/sec
[3]	4.0- 5.0 sec	5.62 MBytes	47.2 Mbits/sec
[3]	5.0- 6.0 sec	5.12 MBytes	43.0 Mbits/sec
[3]	6.0- 7.0 sec	5.38 MBytes	45.1 Mbits/sec
[3]	7.0- 8.0 sec	5.88 MBytes	49.3 Mbits/sec
[3]	8.0- 9.0 sec	6.00 MBytes	50.3 Mbits/sec
[3]	9.0-10.0 sec	5.38 MBytes	45.1 Mbits/sec
[3]	10.0-11.0 sec	6.50 MBytes	54.5 Mbits/sec
[3]	11.0-12.0 sec	6.75 MBytes	56.6 Mbits/sec
[3]	12.0-13.0 sec	6.25 MBytes	52.4 Mbits/sec
[3]	13.0-14.0 sec	6.12 MBytes	51.4 Mbits/sec
[3]	14.0-15.0 sec	6.88 MBytes	57.7 Mbits/sec
[3]	15.0-16.0 sec	6.38 MBytes	53.5 Mbits/sec
[3]	16.0-17.0 sec	4.38 MBytes	36.7 Mbits/sec
[3]	17.0-18.0 sec	5.75 MBytes	48.2 Mbits/sec
[3]	18.0-19.0 sec	5.38 MBytes	45.1 Mbits/sec
[3]	19.0-20.0 sec	5.25 MBytes	44.0 Mbits/sec
[3]	20.0-21.0 sec	6.75 MBytes	56.6 Mbits/sec
[3]	21.0-22.0 sec	4.38 MBytes	36.7 Mbits/sec
[3]	22.0-23.0 sec	6.00 MBytes	50.3 Mbits/sec
[3]	23.0-24.0 sec	5.12 MBytes	43.0 Mbits/sec
[3]	24.0-25.0 sec	4.38 MBytes	36.7 Mbits/sec
[3]	25.0-26.0 sec	5.88 MBytes	49.3 Mbits/sec
[3]	26.0-27.0 sec	5.12 MBytes	43.0 Mbits/sec
[3]	27.0-28.0 sec	6.00 MBytes	50.3 Mbits/sec
[3]	28.0-29.0 sec	6.12 MBytes	51.4 Mbits/sec
[3]	29.0-30.0 sec	6.12 MBytes	51.4 Mbits/sec
[3]	0.0-30.1 sec	172 MBytes	47.8 Mbits/sec

2.4G upload

4.2 Test Result

5GWIFI throughput

C:\Windows\System32\cmd.exe

[276]	4.0- 5.0 sec	39.9 MBytes	334 Mbits/sec
[276]	5.0- 6.0 sec	38.4 MBytes	322 Mbits/sec
[276]	6.0- 7.0 sec	39.2 MBytes	329 Mbits/sec
[276]	7.0- 8.0 sec	39.7 MBytes	333 Mbits/sec
[276]	8.0- 9.0 sec	40.4 MBytes	339 Mbits/sec
[276]	9.0-10.0 sec	39.3 MBytes	330 Mbits/sec
[276]	10.0-11.0 sec	38.9 MBytes	326 Mbits/sec
[276]	11.0-12.0 sec	39.6 MBytes	332 Mbits/sec
[276]	12.0-13.0 sec	39.1 MBytes	328 Mbits/sec
[276]	13.0-14.0 sec	38.7 MBytes	324 Mbits/sec
[276]	14.0-15.0 sec	37.6 MBytes	316 Mbits/sec
[276]	15.0-16.0 sec	39.4 MBytes	331 Mbits/sec
[276]	16.0-17.0 sec	38.8 MBytes	326 Mbits/sec
[276]	17.0-18.0 sec	39.8 MBytes	334 Mbits/sec
[276]	18.0-19.0 sec	39.2 MBytes	329 Mbits/sec
[276]	19.0-20.0 sec	38.5 MBytes	323 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	38.4 MBytes	322 Mbits/sec
[276]	21.0-22.0 sec	38.3 MBytes	321 Mbits/sec
[276]	22.0-23.0 sec	39.9 MBytes	335 Mbits/sec
[276]	23.0-24.0 sec	39.3 MBytes	330 Mbits/sec
[276]	24.0-25.0 sec	40.2 MBytes	337 Mbits/sec
[276]	25.0-26.0 sec	40.0 MBytes	335 Mbits/sec
[276]	26.0-27.0 sec	39.2 MBytes	329 Mbits/sec
[276]	27.0-28.0 sec	38.3 MBytes	321 Mbits/sec
[276]	28.0-29.0 sec	39.7 MBytes	333 Mbits/sec
[276]	29.0-30.0 sec	38.1 MBytes	320 Mbits/sec
[276]	0.0-30.0 sec	1.14 GBytes	326 Mbits/sec

C:\>

5G download

[3] local 192.168.1.53 port 41664 connected with 1

[ID]	Interval	Transfer	Bandwidth
[3]	0.0- 1.0 sec	34.1 MBytes	286 Mbits/sec
[3]	1.0- 2.0 sec	29.5 MBytes	247 Mbits/sec
[3]	2.0- 3.0 sec	34.2 MBytes	287 Mbits/sec
[3]	3.0- 4.0 sec	31.5 MBytes	264 Mbits/sec
[3]	4.0- 5.0 sec	31.2 MBytes	262 Mbits/sec
[3]	5.0- 6.0 sec	33.2 MBytes	279 Mbits/sec
[3]	6.0- 7.0 sec	34.8 MBytes	292 Mbits/sec
[3]	7.0- 8.0 sec	32.6 MBytes	274 Mbits/sec
[3]	8.0- 9.0 sec	33.1 MBytes	278 Mbits/sec
[3]	9.0-10.0 sec	32.2 MBytes	271 Mbits/sec
[3]	10.0-11.0 sec	31.8 MBytes	266 Mbits/sec
[3]	11.0-12.0 sec	33.1 MBytes	278 Mbits/sec
[3]	12.0-13.0 sec	31.5 MBytes	264 Mbits/sec
[3]	13.0-14.0 sec	32.9 MBytes	276 Mbits/sec
[3]	14.0-15.0 sec	32.2 MBytes	271 Mbits/sec
[3]	15.0-16.0 sec	29.1 MBytes	244 Mbits/sec
[3]	16.0-17.0 sec	26.0 MBytes	218 Mbits/sec
[3]	17.0-18.0 sec	31.2 MBytes	262 Mbits/sec
[3]	18.0-19.0 sec	30.4 MBytes	255 Mbits/sec
[3]	19.0-20.0 sec	31.9 MBytes	267 Mbits/sec
[3]	20.0-21.0 sec	31.0 MBytes	260 Mbits/sec
[3]	21.0-22.0 sec	32.9 MBytes	276 Mbits/sec
[3]	22.0-23.0 sec	33.1 MBytes	278 Mbits/sec
[3]	23.0-24.0 sec	32.0 MBytes	268 Mbits/sec
[3]	24.0-25.0 sec	32.4 MBytes	272 Mbits/sec
[3]	25.0-26.0 sec	31.9 MBytes	267 Mbits/sec
[3]	26.0-27.0 sec	32.0 MBytes	268 Mbits/sec
[3]	27.0-28.0 sec	31.6 MBytes	265 Mbits/sec
[3]	28.0-29.0 sec	32.2 MBytes	271 Mbits/sec
[3]	29.0-30.0 sec	29.5 MBytes	247 Mbits/sec
[3]	0.0-30.0 sec	956 MBytes	267 Mbits/sec

5G upload

5. Test Result

GPS Measured data





6. Conclusions

Thank you