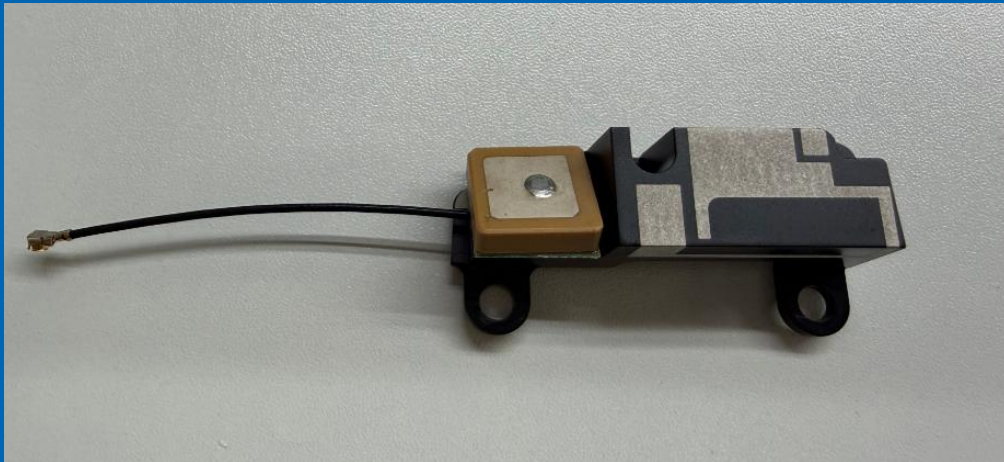
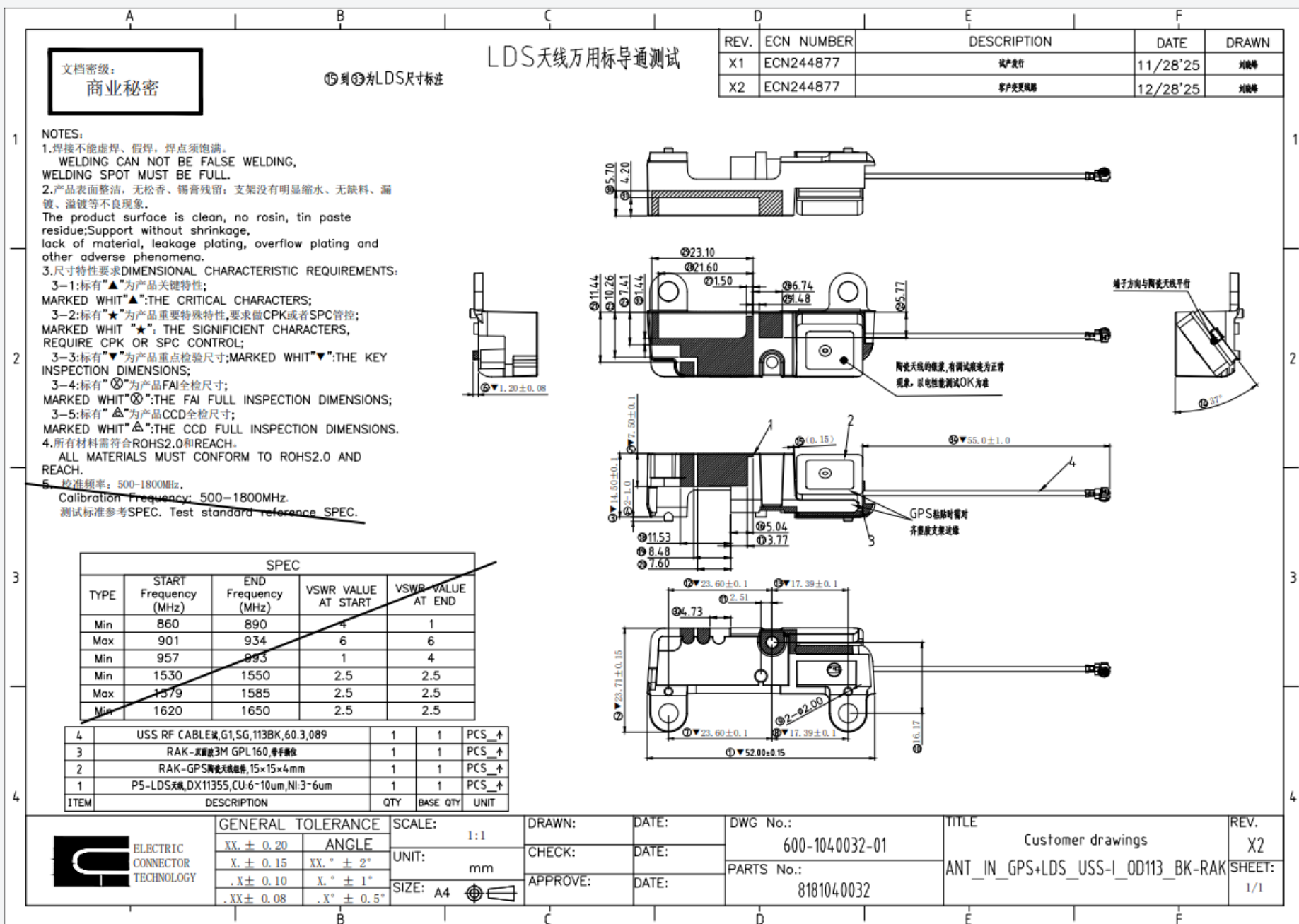


P5 Omni-V3 Antenna Datasheet



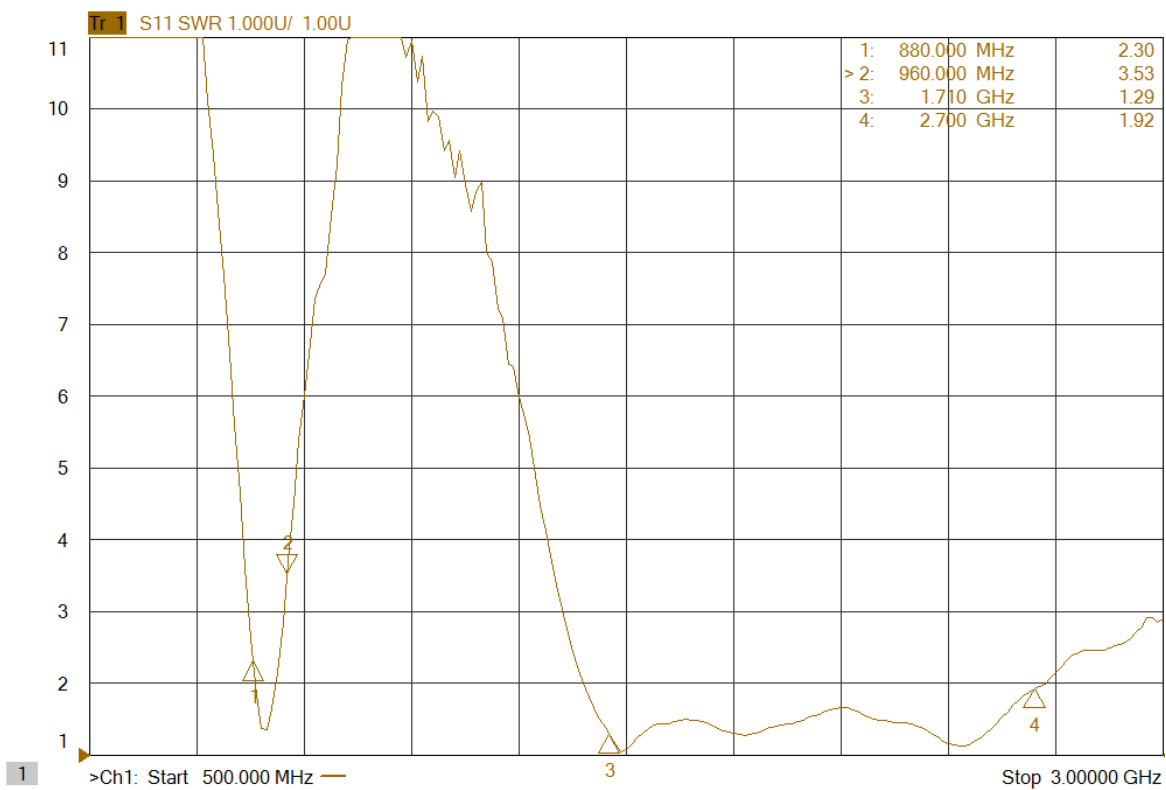
Antenna Model	LTE ANTENNA	LORA ANTENNA	GPS ANTENNA
Frequency Range	880~ 960 MHz 1710~ 2170 MHz	902~ 928 MHz	1575.42 ± 1.023MHz
Gain	2 dBi	2dBi	1 dBi
VSWR	<4	<2	<2.5
Efficiency	30%	40%	50%
Feed Impedance	50 Ω	50 Ω	50 Ω
Polarization	linear polarization		RHCP
Antenna sizes	52×23.7×15.5mm		
Cable length	55mm		
Operation Temperature	-40° C to + 85° C		
Storage Temperature	-40° C to + 85° C		
Relative Humidity	40% to 95%		

Antenna Full Assembly

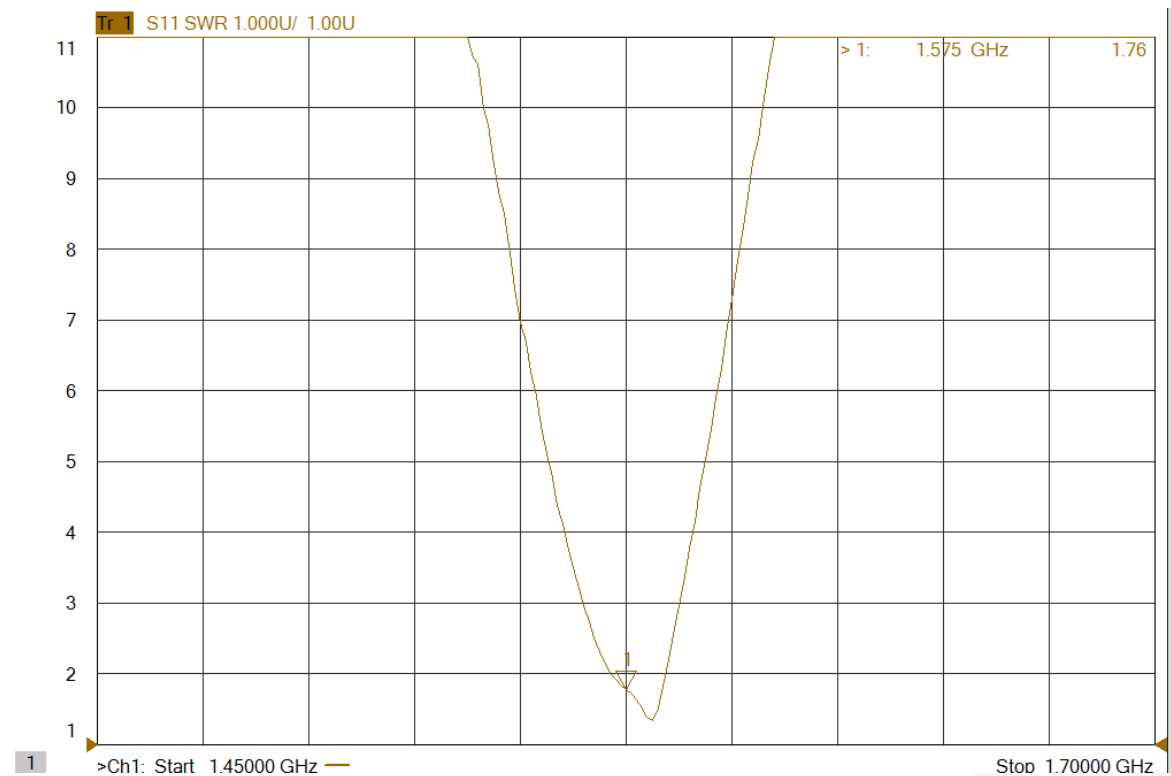


VSWR

LTE ANTENNA



GPS ANTENNA

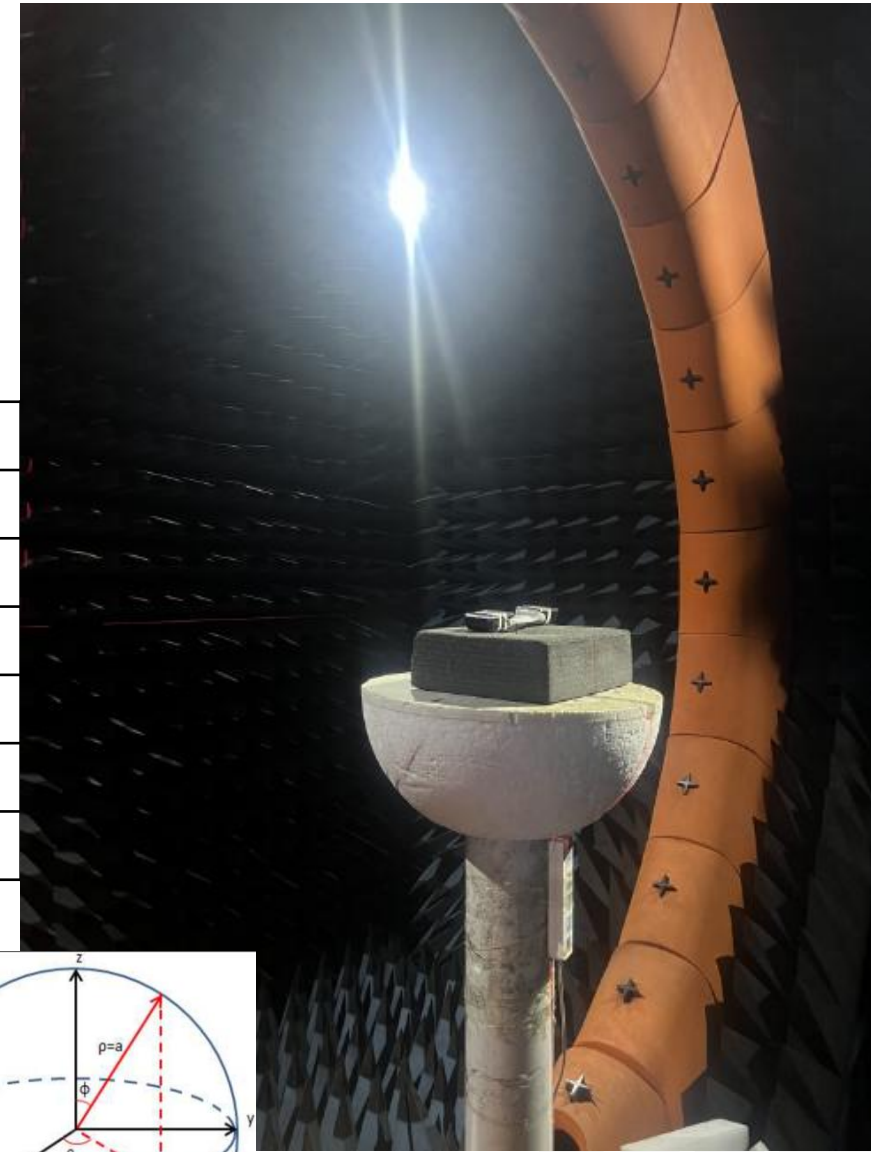
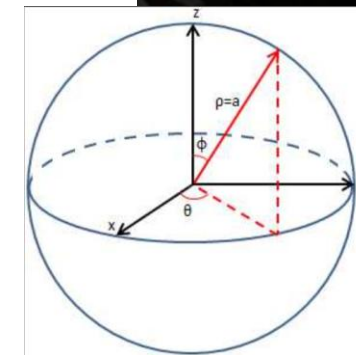


LTE

band	EU		NA	
	Gain dBi	efficiency	Gain dBi	efficiency
B1	0.3	35.3%		
B2			-0.17	31.7%
B3	0.18	36.5%		
B4			0.22	35.6%
B5	-3	24%	-3	24%
B7	0.34	34.9%		
B8	0.28	37.4%		
B12			-12.4	2.88%
B13			-8.9	6.5%
B20	-7.3	10.2%		
B25	-0.24	31.7%	-0.24	31.7%
B28	-10.4	5.2%		
B66			0.21	35.5%

GPS

Frequency	Efficiency()	Frequency	E Total. dB(dB)
1572.4MHz	48%	1570.4MHz	1.06
1573.4MHz	50%	1571.4MHz	1.19
1574.4MHz	50%	1572.4MHz	1.24
1575.4MHz	50%	1573.4MHz	1.34
1576.4MHz	49%	1574.4MHz	1.13
1577.4MHz	47%	1575.4MHz	0.73



TRP&TIS

EU

B1	18050	19.48		
	18300	19.84	chNO	TIS
	18550	19.88	550	-94.44
	chNO	TRP		
B3	19250	17.73		
	19575	19.02	chNO	TIS
	19900	18.55	1900	-73.1
	chNO	TRP		
B5	20450	12.8		
	20525	13.5	chNO	TIS
	20600	14.4	2600	-91.6
B7	20850	19.45		
	21100	18.62	chNO	TIS
	21350	18.1	3350	-94.19
	chNO	TRP		
B8	21500	17.31		
	21625	17.95	chNO	TIS
	21750	18.15	3750	-90.2
B28	27260	5.69		
	27435	6.15	chNO	TIS
	27610	7.5	9610	-86.12

NA

B2	18650	18.3		
	18900	19.42	chNO	TIS
	19150	18.67	1150	-92.78
	chNO	TRP		
B4	20000	18.43		
	20175	19.02	chNO	TIS
	20350	19.47	2350	-94.78
	chNO	TRP		
B5	20450	12.56		
	20525	12.95	chNO	TIS
	20600	13.23		-92.1
B12	23060	4.31		
	23095	4.63	chNO	TIS
	23130	4.96		-82.31
			chNO	TIS
B13	23230	11.47	5230	-83.34
	26090	18.6		
	26365	18.8	chNO	TIS
B25	26640	18.9	9610	-93.07
	132022	19.34		
	132322	19.2	chNO	TIS
B66	132622	18.75	67086	-93.89

THANK YOU



www.RAKwireless.com