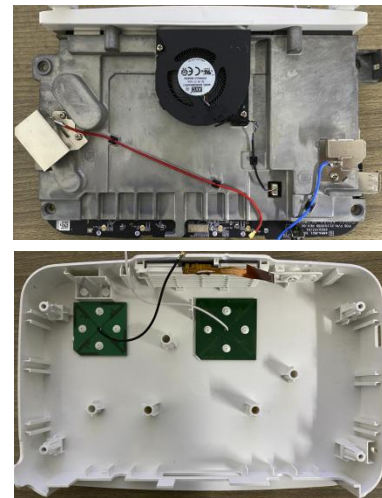


DATA SHEET

ARUBA ANTENNA

ANT-605R

The Model ANT-605R's superior performance is derived by combining the benefits of four high gain antenna elements with high isolation between each beam. This Omnidirectional and high isolation improves the SNR in MIMO channels, thereby increasing the range and throughput of WLAN, devices. The Model ANT-605R supports independent Tri-band transmission in the 2.4GHz band, the 4.9 to 5.9GHz Band and 5.9GHz-7.2GHzband, BT and GPS.



FREQUENCY/UNCORRELATED GAIN

4.4dBi @ 2.4 GHz, 4.7dBi @ 5GHz, 4.7dBi @ 6GHz, 5.1dBi @ BLE, 2.7dBi @ GNSS

DIMENSIONS

206.15*208.37*20.7 mm

WEIGHT

120.5g (0.5 lbs)

Material

Plate: Aluminum

Carrier: Plastic

Antenna: Metal/PCB

IMPEDANCE

50 ohms

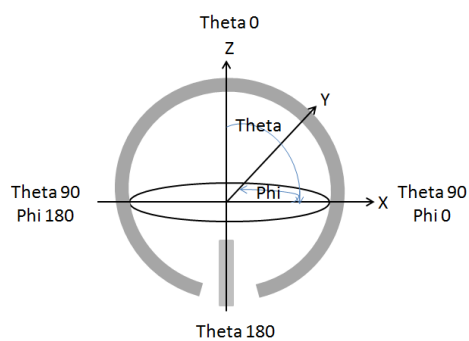
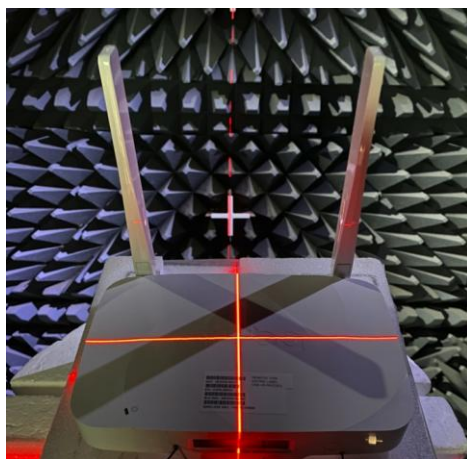
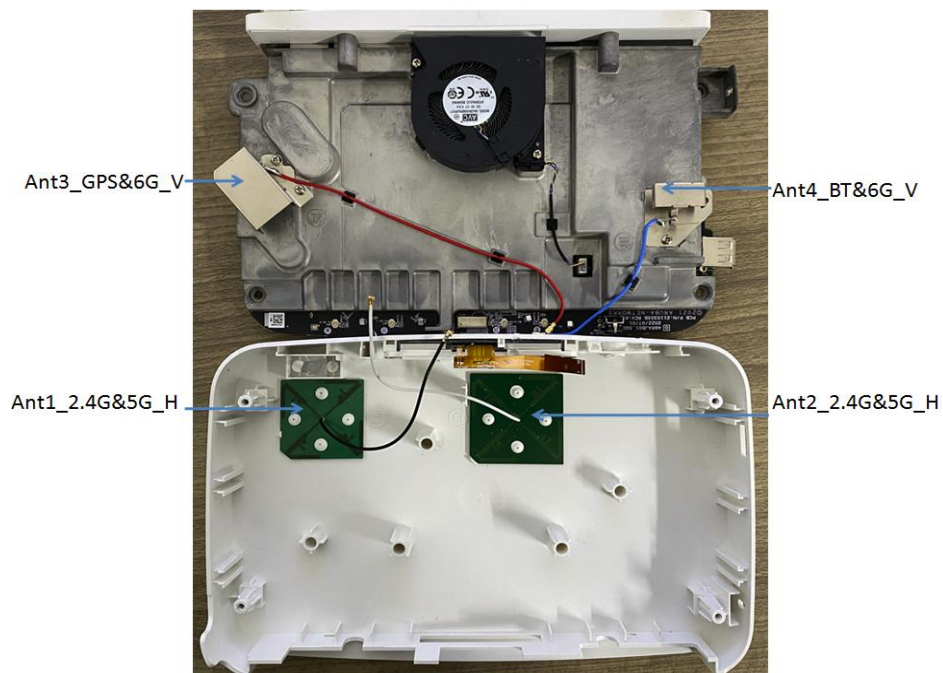
OPERATING TEMPERATURE

-40° C to +55° C

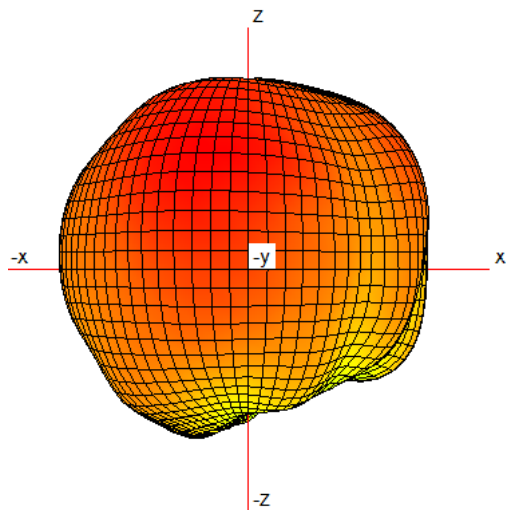
VSWR

2:1 max

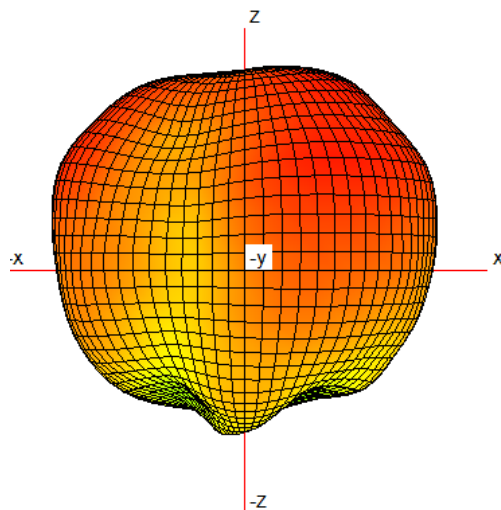
ANTENNA PATTERN PLOTS



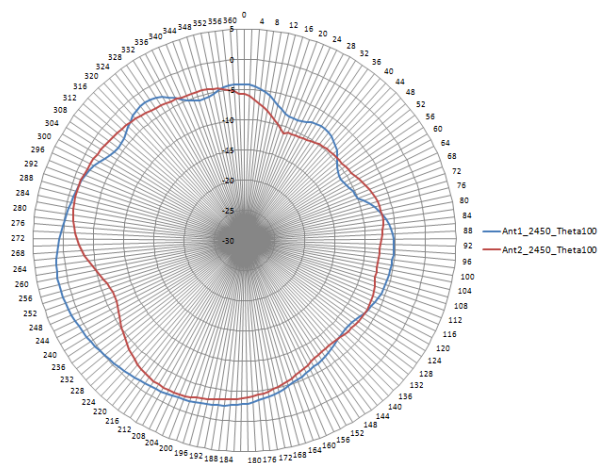
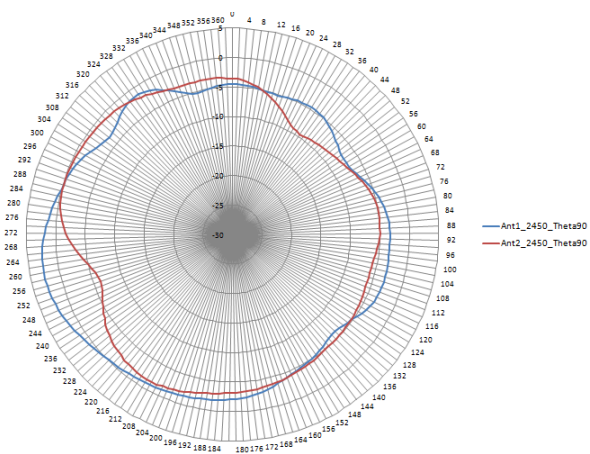
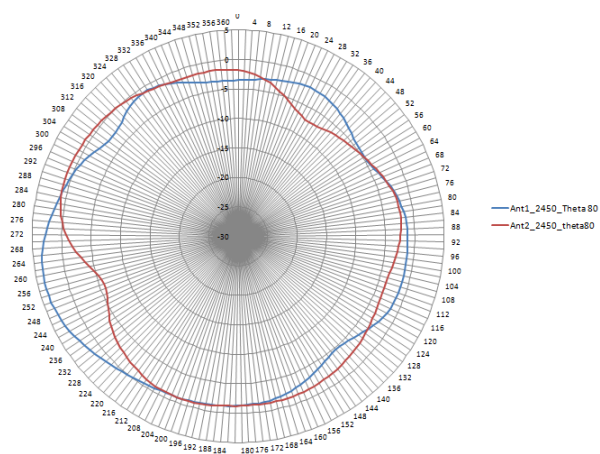
Radiation Patterns at 2.45 GHz



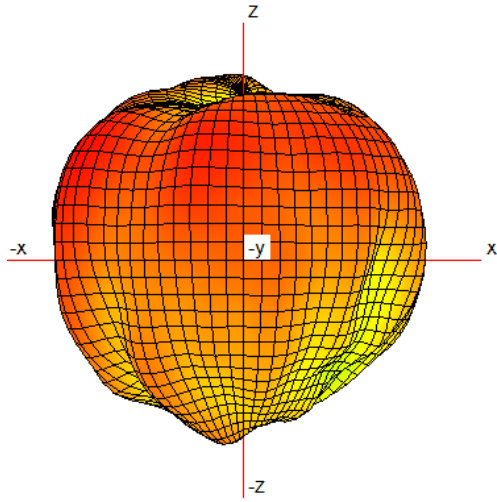
Ant1



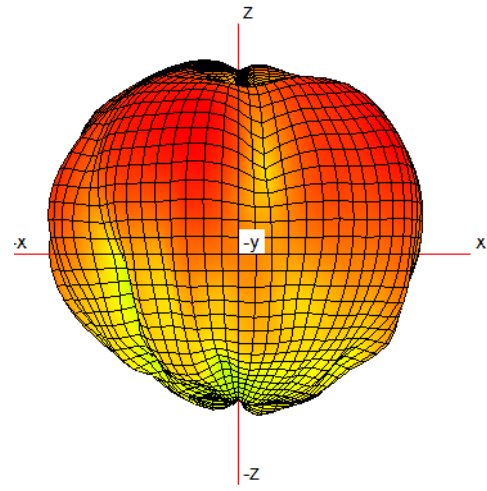
Ant2



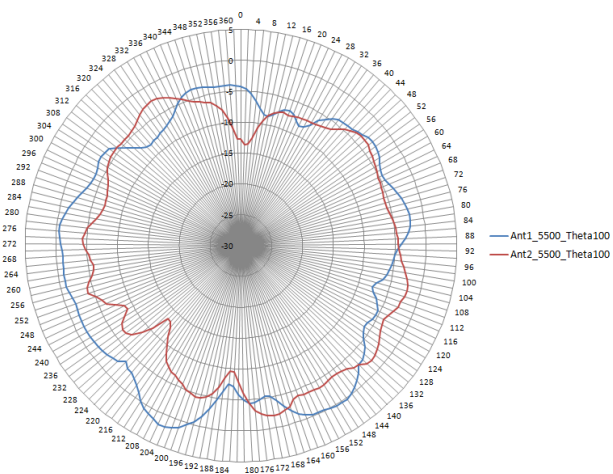
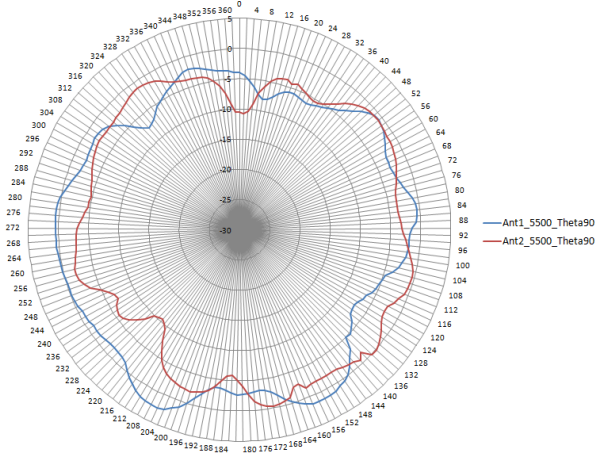
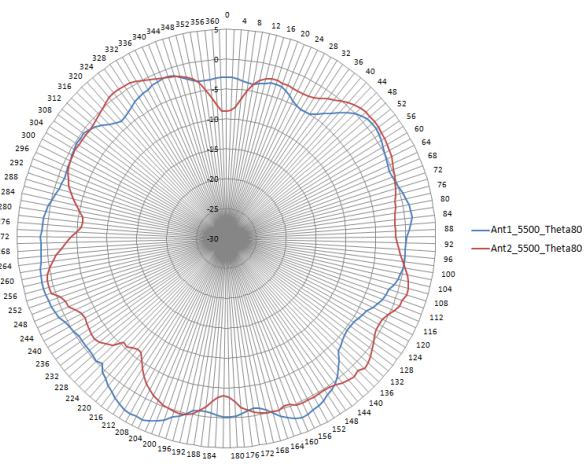
Radiation Patterns at 5.5GHz



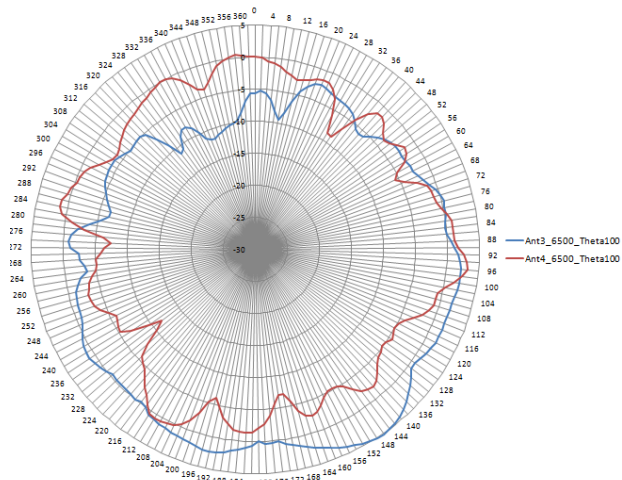
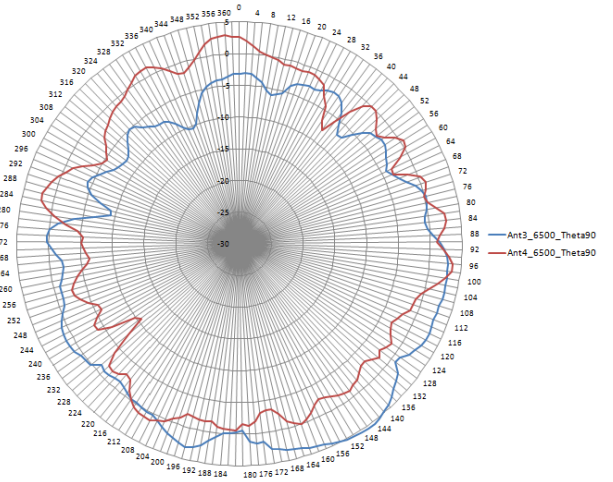
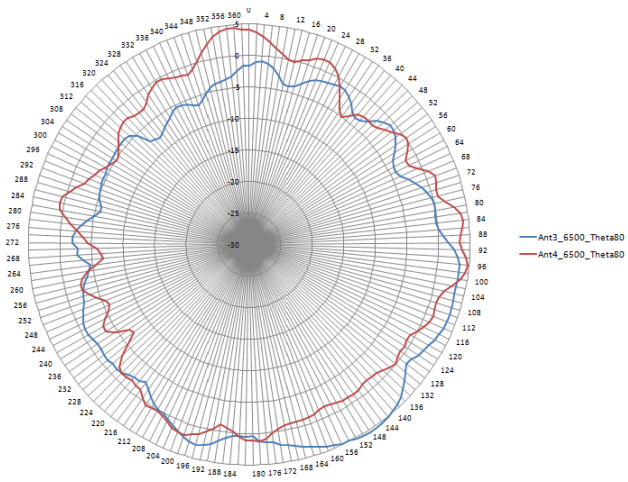
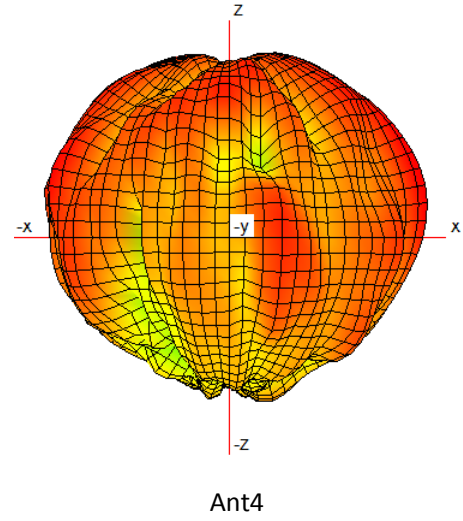
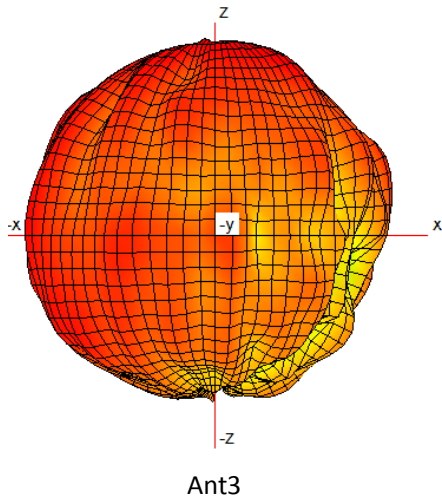
Ant1



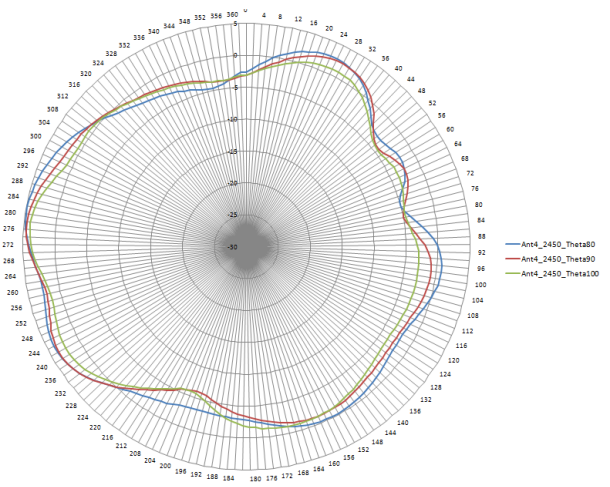
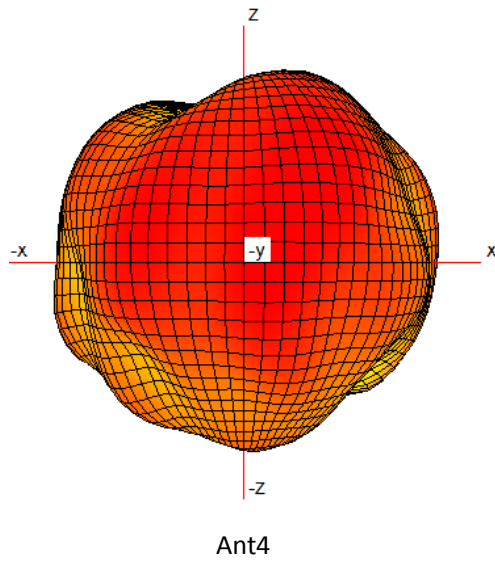
Ant2



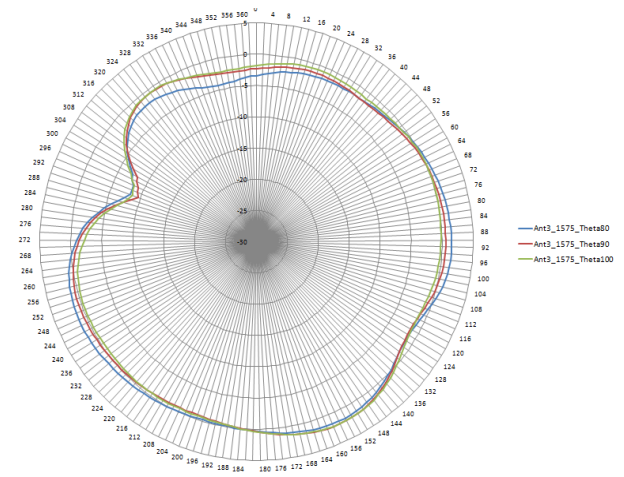
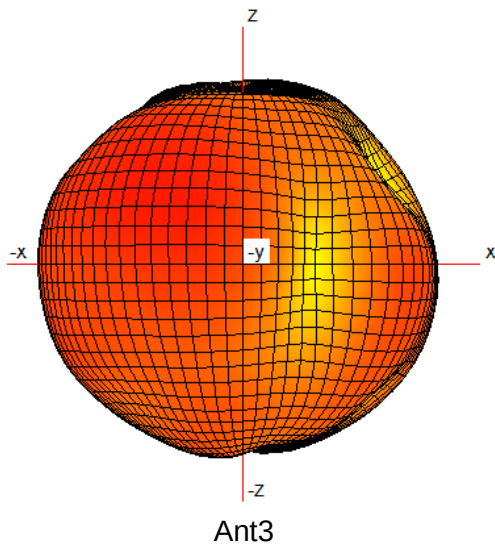
Radiation Patterns at 6.5GHz



Radiation Patterns at BLE



Radiation Patterns at GNSS



Results summary at 2.4G

	S11(dB)		Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant1 (2.4G+5G H)	-10	9.6	70	73%	3dBi<Max Gain<5dBi	5.3 @ 2.40Ghz	20dB vs Ant2	18dB	10dB @ theta80 /90/100	8.5@ theta80
						5.5 @ 2.45Ghz	25dB vs Ant3&Ant4	26dB		10 @ theta90
						4.9 @ 2.49Ghz	30dB vs Ant LTE	30dB		12.6@ theta100
Ant2 (2.4G+5G H)	-10	9.8	70	67%	3dBi<Max Gain<5dBi	4.2 @ 2.40Ghz	20dB vs Ant1	18dB	10dB @ theta80 /90/100	8.2@ theta80
						3.9 @ 2.45Ghz	25dB vs Ant3&Ant4	31dB		9.4@ theta90
						4.5 @ 2.49Ghz	30dB vs Ant LTE	29dB		10.1@ theta100

Frequency (Mhz)	Uncorrelated Gain (dBi)	correlated Gain (dBi)
2400	3.4	6.4
2450	4.1	7.1
2490	4.4	7.4

Results summary at 5G

	S11(dB)		Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant1 (2.4G+5G H)	-10	10.1	70	73% @5G	3dBi<Max Gain<5.5dBi @ 5Ghz	5.3 @ 5.1Ghz	20dB vs Ant2	18dB	10dB @ theta80 /90/100	9.8@ theta80
						5.3 @ 5.5Ghz	25dB vs Ant3&Ant4	26dB		10.7 @ theta90
						4.8 @ 5.85Ghz	30dB vs Ant LTE	30dB		10.5@ theta100
Ant2 (2.4G+5G H)	-10	10.2	70	75% @5G	3dBi<Max Gain<5.5dBi @ 5Ghz	5.5 @ 5.1Ghz	20dB vs Ant1	18dB	10dB @ theta80 /90/100	9.3@ theta80
						5.0 @ 5.5Ghz	25dB vs Ant3&Ant4	31dB		10.7 @ theta90
						5.5 @ 5.85Ghz	30dB vs Ant LTE	29dB		10.9@ theta100

Frequency (Mhz)	Uncorrelated Gain (dBi)	correlated Gain (dBi)
5100	4.7	7.4
5500	4.6	7.6
5850	3.4	6.4

Results summary at 6G

	S11(dB)		Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant3 (GPS+6G V)	-10	14.8	70	79%	3dBi<Max Gain<5.5dBi @ 6Ghz	4.7 @ 5.9Ghz	25dB vs Ant1&Ant2	28dB	10dB @ theta80 /90/100	14.4 @ theta80
						5.5 @ 6.5Ghz	20dB vs Ant4	32dB		17.9 @ theta90
						5.4 @ 7.125Ghz	20/30dB vs Ant LTE	20dB @ GPS 35dB @ 6G		17.0 @ theta100
Ant4 (BT+6G V)	-10	9.6	70	73%	3dBi<Max Gain<5.5dBi @ 6Ghz	4.2 @ 5.9Ghz	25dB vs Ant1&Ant2	28dB	10dB @ theta80 /90/100	12.9 @ theta80
						5.4 @ 6.5Ghz	20dB vs Ant4	29dB		13.2 @ theta90
						5.5 @ 7.125Ghz	30dB vs Ant LTE	27dB @ BT 33dB @ 6G		13.7 @ theta100

Frequency (Mhz)	Uncorrelated Gain (dBi)	correlated Gain (dBi)
5900	3.1	6
6500	4.7	7.7
7125	4.3	7.3

Results summary at GNSS

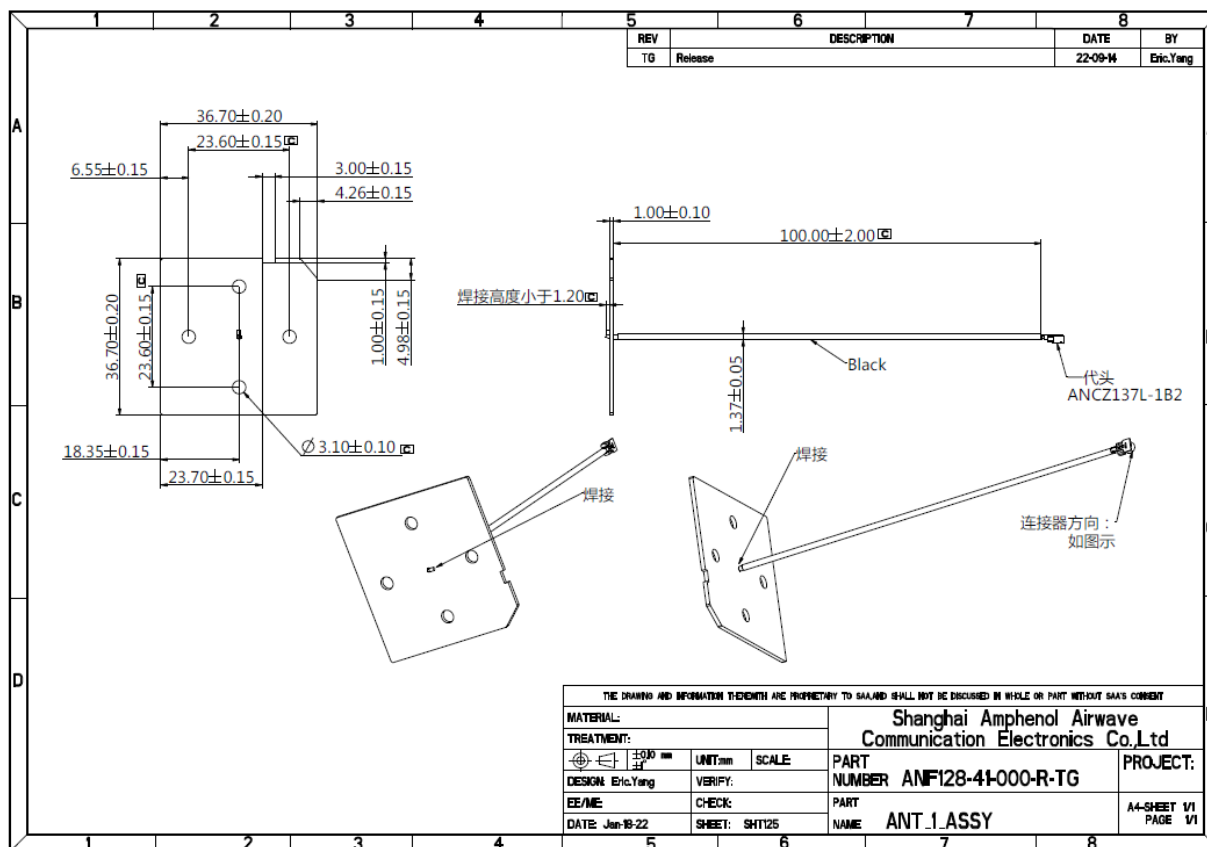
	S11(dB)		Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant3 (GPS+6G V)	-10	18	70	73%		2.7 @ 1.575Ghz	20dB vs other Ants	20dB	10dB @ theta80 /90/100	9.9 @ theta80 11.7 @ theta90 10.7 @ theta100

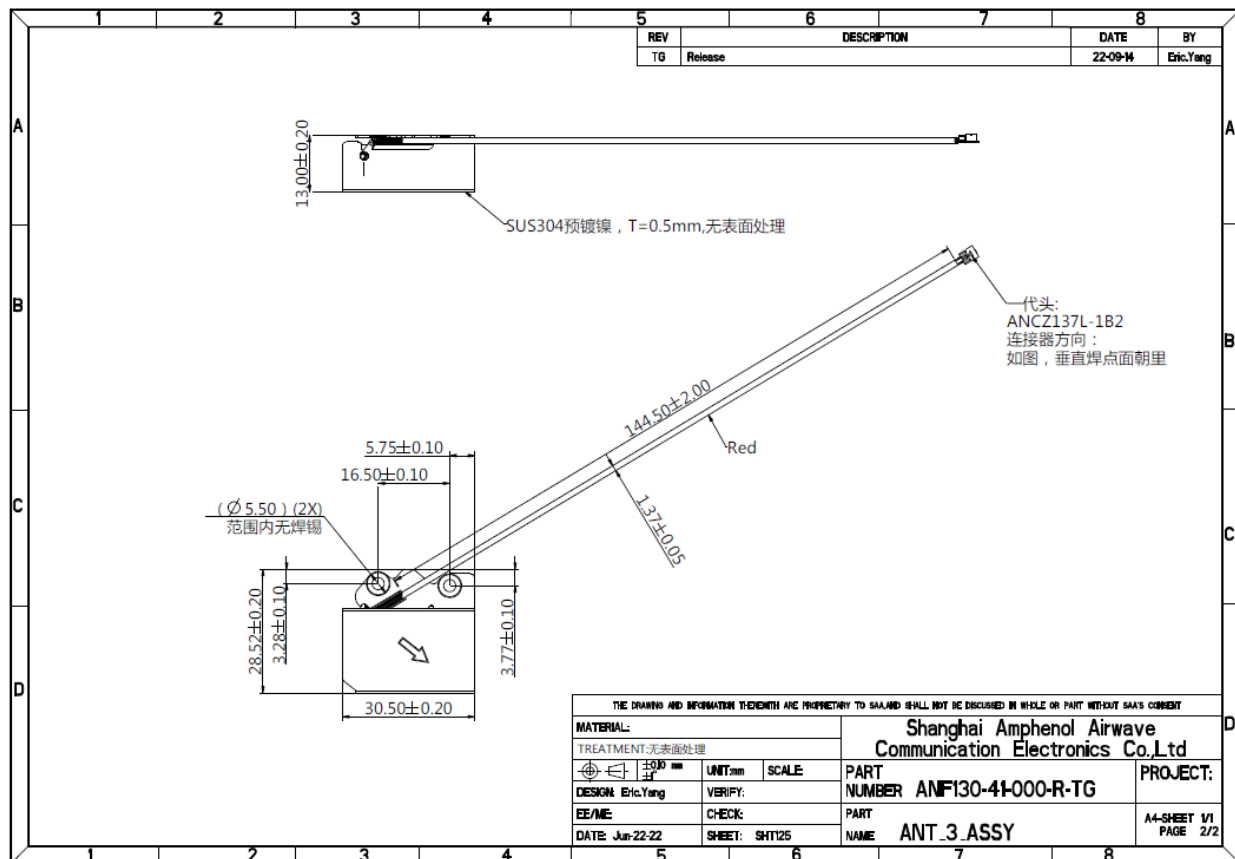
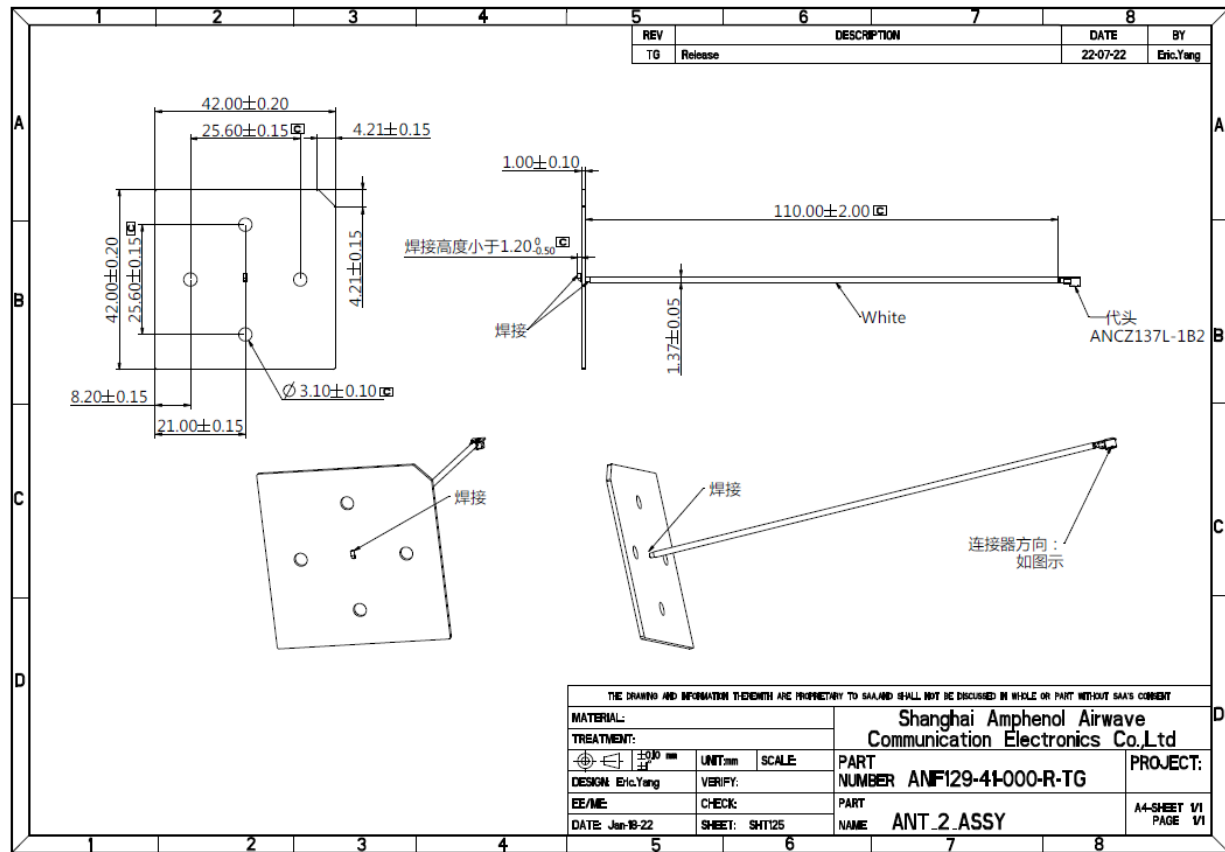
Results summary at BLE

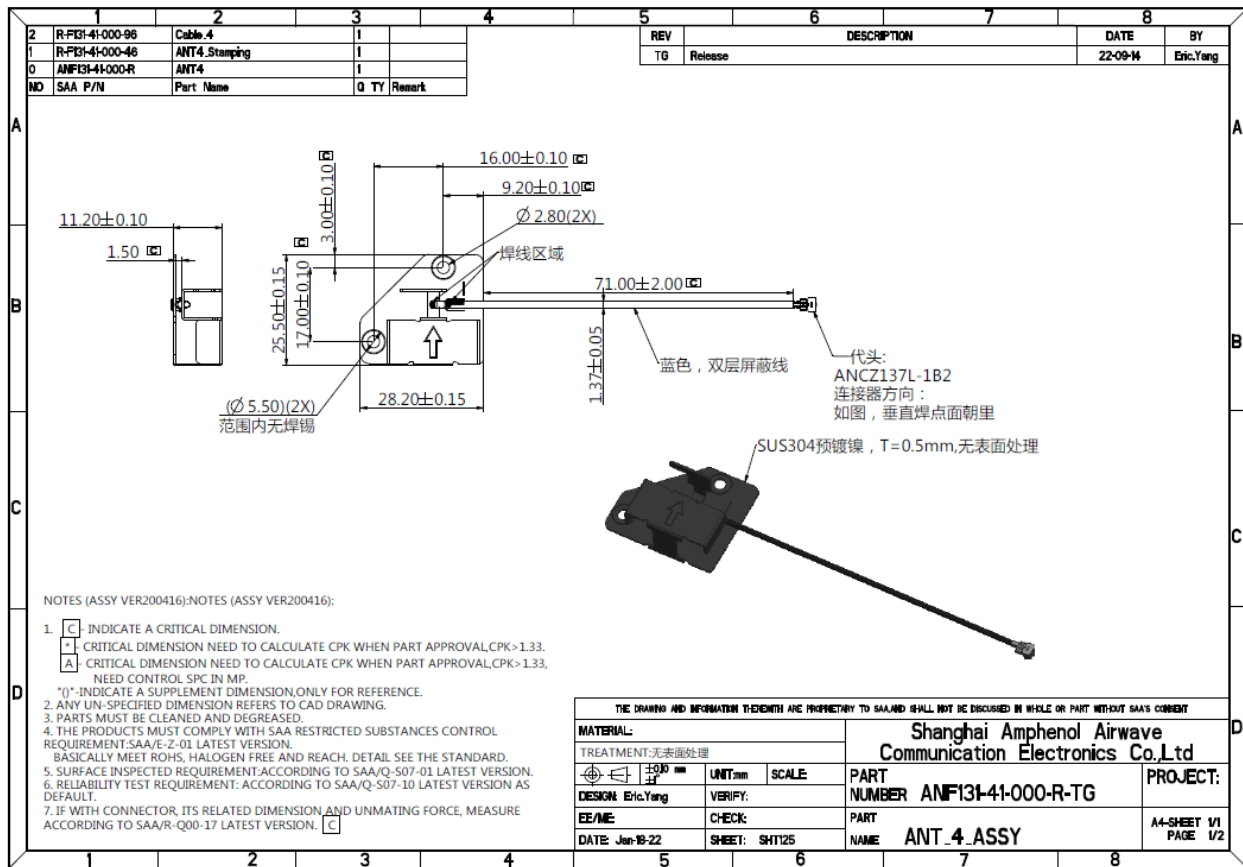
	S11(dB)		Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant4 (BT+6G V)	-10	15.2	70	74%	3dBi<Max Gain<5dBi	3.9 @ 2.4Ghz	25dB vs Ant1&Ant2	28dB	10dB @ theta80 /90/100	11.9 @ theta80
						5.0 @ 2.45Ghz	20dB vs Ant3	29dB		10.7 @ theta90
						5.1 @ 2.5Ghz	30dB vs Ant LTE	27dB		10.2 @ theta100

Correlated gain values generated by first generating the correlated gains of the co-pol pairs $[10\log[(10G1/20 + 10G2/20 + \dots + 10GN/20)^2 / NANT]]$ using the spatial gain data. The results were then summed $[10\log[(10G1/10 + 10G2/10 + \dots + 10GN/10)/NANT]]$.

Dimensions







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