

2.2.RF characteristics

Parameter		Min	Type	Max	Unit	Conditions/Notes
Frequency range		6240		8240	MHz	Channel 5 and 9
Channel bandwidth			500		MHz	
Power level range			32		dB	
Power level step			0.25		dB	
Rx Sensitivity (± 10 ppm carrier Offset)	Channel 5			-96.5	dBm	6.8 Mbit/s data rate, Dual RX, SP0 Frame with 20 byte payload, 1 % PER
	Channel 9			-96.5	dBm	6.8 Mbit/s data rate, Dual RX, SP0 Frame with 20 byte payload, 1 % PER

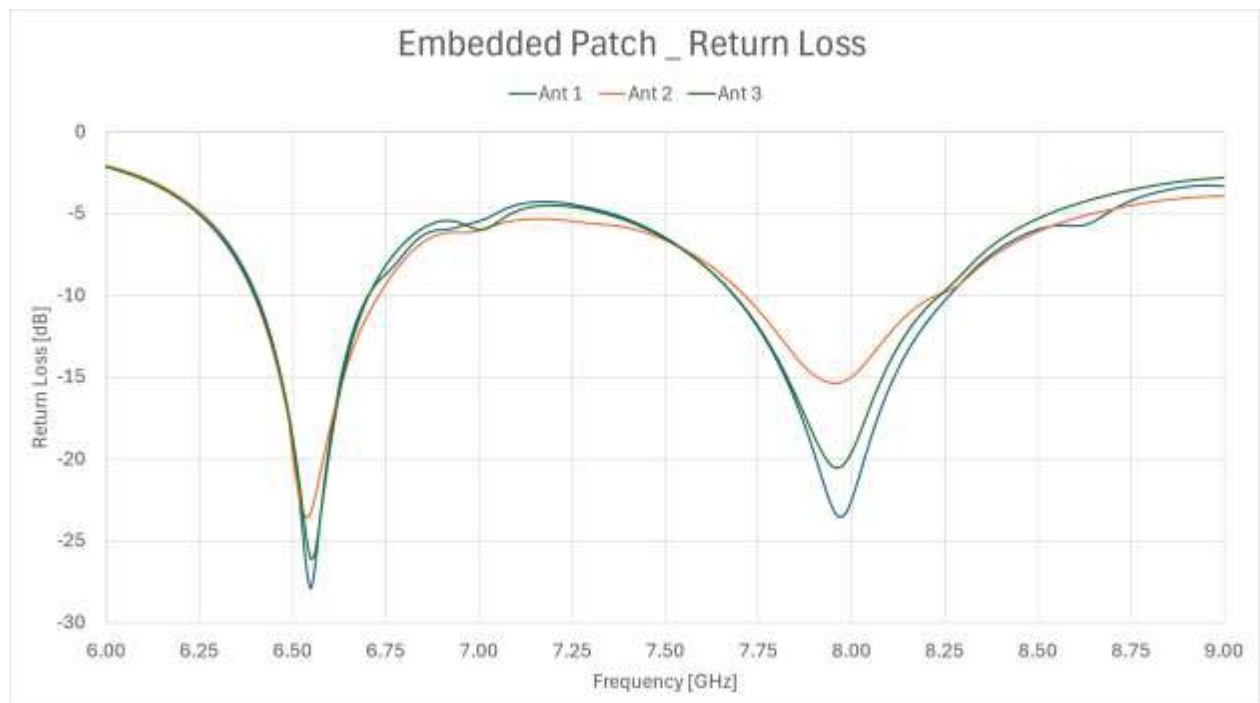
2.3.PCB patch Antenna information

Antenna Type	PCB Patch
Antenna Polarization	Linear
Return Loss	>10dB
Peak Gain	3.5dBi min @CH5 3.6dBi min @CH9
Efficiency	60%
Antennas Isolation	>20dB
Frequency range	6.0 ~ 8.5GHz

Isolation:

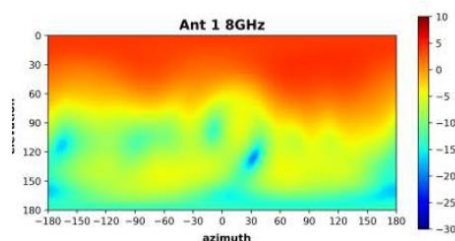
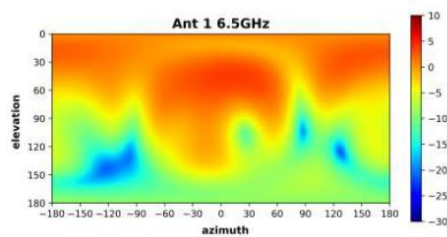
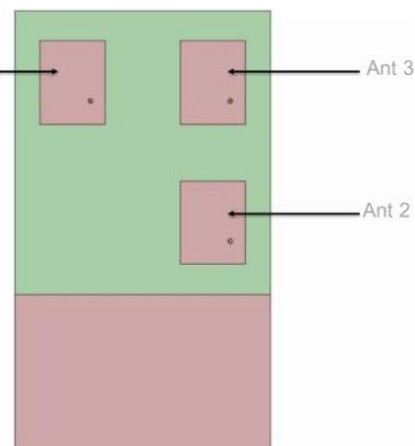


Return Loss:

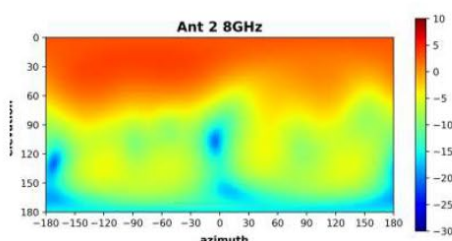
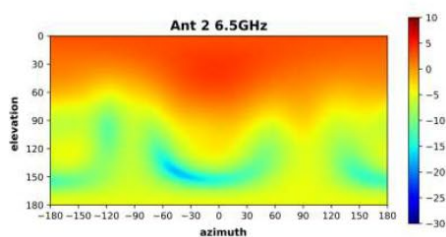
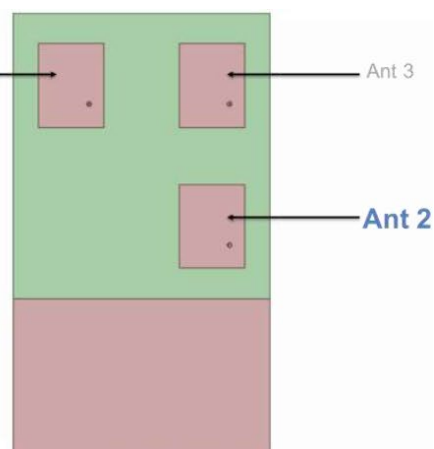


Peak Gain & Efficiency:

Ant 1		Frequency [GHz]	Peak Gain [dBi]	Tot. Efficiency [%]
	CH5	6.25	3.7	64.3
		6.50	3.9	60.0
		6.75	3.6	66.5
	CH9	7.75	4.4	70.7
		8.00	4.5	65.6
		8.25	4.2	62.4



Ant 2		Frequency [GHz]	Peak Gain [dBi]	Tot. Efficiency [%]
	CH5	6.25	3.6	62.6
		6.50	4.2	61.7
		6.75	3.5	67.5
	CH9	7.75	4.2	67.0
		8.00	3.7	61.2
		8.25	3.9	60.0



		Frequency [GHz]	Peak Gain [dBi]	Tot. Efficiency [%]
Ant 3	CH5	6.25	3.5	63.7
		6.50	4.1	60.0
		6.75	3.8	61.5
	CH9	7.75	4.5	65.5
		8.00	3.6	64.6
		8.25	3.7	62.3

