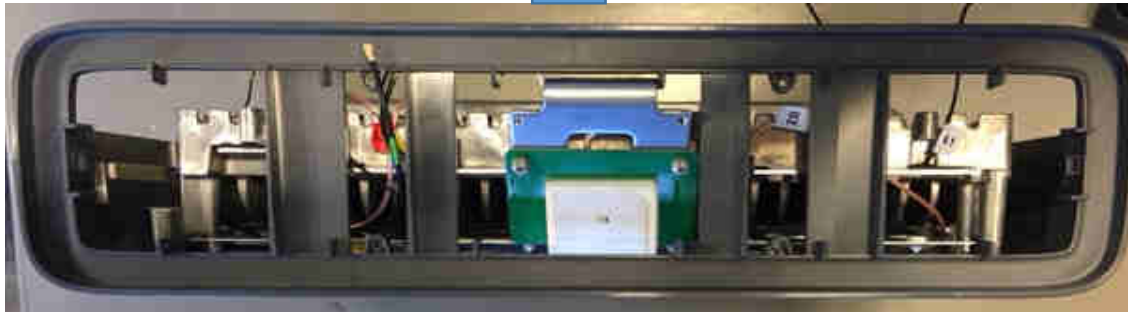


Direction B = Indoor Sector

2W B41 eNB + Dual Band Concurrent Wifi AP



Direction A = Outdoor Sector

Mode 1

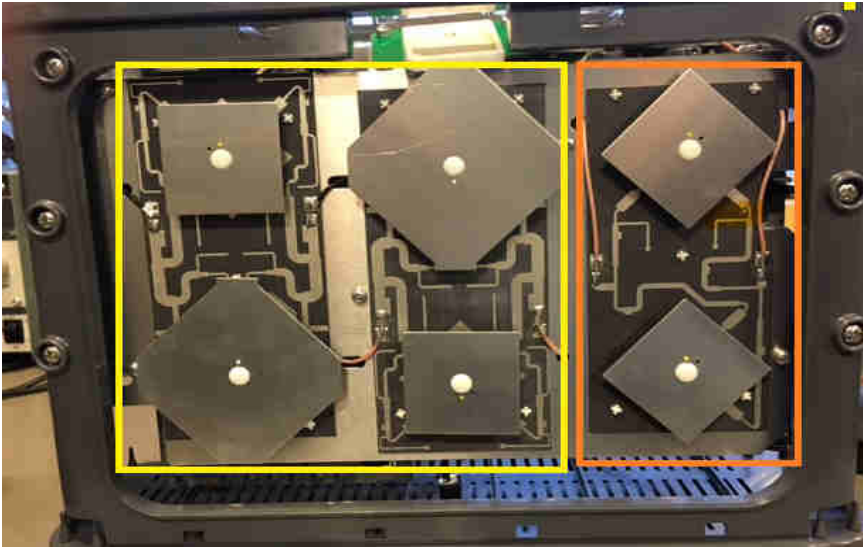
5W B41 eNB + UE Relay in B41 at 2 x 23dBm

Mode 2

5W B41 eNB + UE Relay in B25 at 2 x 20dBm

Outdoor sector

Backhaul (Band 25) (UE Relay: Sercom)		Access (Band 41) (eNB: Airspan)	
Pout	20 dBm (capped)	27.75 dBm total power (worst case)	
Antenna	6 dBi	10 dBi for both elements combined	
2 x 2	29		
Burst	0.794328235 W	5.956621	
Duty Cycle	1	0.742857	
Average Pout	794.3282347 mW	4424.919 mW	
Total	5219.247015 mW		
20cm Distance from enclosure	0.925861608 mW/cm^2		
Threshold	1 mW/cm^2		
	0.92612372 mW/cm^2		
antenna spacing from enclosure	1.18 cm		



Backhaul Antenna

eNB antenna

Backhaul (Band 41)
(UE Relay: Sercom)

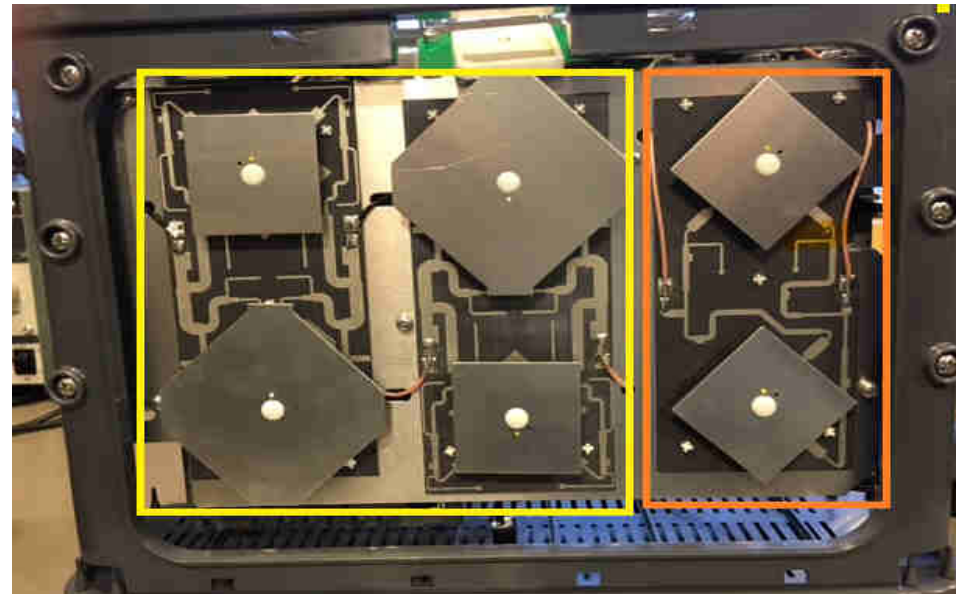
Pout	23 dBm
Antenna	7.5 dBi
2x2	33.5
Burst	2.238721139 W
Duty Cycle	0.228571429
Average Pout	511.7076888
Total	4936.626469 mW
20cm Distance	0.982110631 mW/cm ²
Threshold	1 mW/cm ²

Access (Band 41)
(eNB: Airspan)

27.75 dBm total power (worst case)
10 dBi for both elements combined

5.956621
0.742857

4424.919



	Wifi 2.4		Wifi 5.0		Access (Band 41) (eNB: Airspan)
Pout	21.34 dBm	Pout	19.68 dBm	Pout	24.12 dBm total power (worst case)
Antenna	7 dBi	Antenna	8 dBi	Antenna	9 dBi for both elements combined
2 x 2	31.34	1x1	27.68	2 x2	
Burst	1.361445 W	Burst	0.586138 W	Burst	2.051162
Duty Cycle	1	Duty Cycle	1	Duty Cycle	0.742857
Average Pout	1361.445	Average Pout	586.1382		1523.72
Total	3471.303 mW				
20cm Distance	0.690594 mW/cm^2				
Threshold	1 mW/cm^2				
	0.690789 mW/cm^2				

