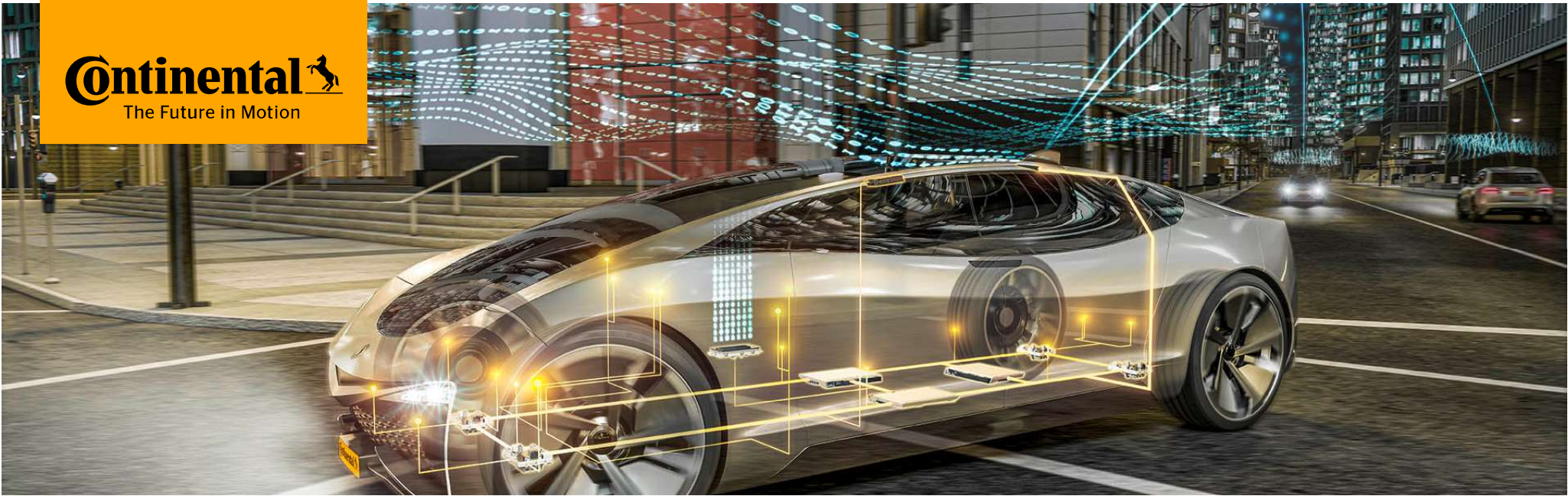




Subaru T26 WLAN Antenna Specifications

Internal

1. Antenna Specifications

Frequencies:	2400 – 2497 MHz 5150 – 5850 MHz	
Input reflection coefficient:	≤ -6 dB (VSWR ≤ 3)	
Impedance (reference):	50 Ohms	
Antenna Efficiency:		
2.4G WLAN	2.4~2.4835GHz	-1.04dB
5G WLAN	5.15~5.25GHz	-2.62dB
	5.25~5.35GHz	Not Supported
	5.47~5.725GHz	Not Supported
	5.725~5.825GHz	-1.85dB
	5.725~5.850GHz	-1.85dB

1. Antenna Specifications

Antenna Peak Gain:		
2.4G WLAN	2.4~2.4835GHz	3.29 dBi
5G WLAN	5.15~5.25GHz	5.11 dBi
	5.25~5.35GHz	Not Supported
	5.47~5.725GHz	Not Supported
	5.725~5.825GHz	6.22 dB
	5.725~5.850GHz	6.22 dB
Form of Radiation Pattern	Omni-directional	
Antenna type	Stamped antenna	

1. Antenna Specifications - 2.4 GHz Band

Frequency [MHz]	Efficiency [dB]	Peak Gain [dBi]
2400	-1.31	2.83
2410	-1.05	3.12
2420	-1.15	2.91
2430	-1.06	2.90
2440	-1.11	2.77
2450	-0.99	2.84
2460	-1.09	2.78
2470	-1.05	2.95
2480	-0.80	3.29

1. Antenna Specifications - 5GHz Band

Frequency [MHz]	Efficiency [dB]	Peak Gain [dBi]
5150	-2.92	3.34
5160	-2.75	3.60
5170	-2.19	4.46
5180	-2.39	4.04
5190	-2.77	3.70
5200	-2.26	4.55
5210	-2.87	3.88
5220	-2.64	4.59
5230	-2.67	4.73
5240	-2.53	5.11
5250	-2.92	4.69
5260	-2.48	5.48
5270	-2.84	5.29
5280	-2.84	5.47
5290	-2.65	5.67
5300	-2.58	6.13
5310	-2.85	5.80
5320	-2.52	6.31
5330	-2.82	6.14
5340	-3.03	5.89
5350	-2.83	6.20
5360	-2.36	6.82
5370	-2.50	6.58

Frequency [MHz]	Efficiency [dB]	Peak Gain [dBi]
5380	-2.38	6.79
5390	-2.72	6.38
5400	-2.76	6.34
5410	-2.63	6.34
5420	-3.04	6.09
5430	-2.72	6.40
5440	-2.89	6.17
5450	-2.49	6.53
5460	-2.34	6.66
5470	-2.59	6.33
5480	-2.50	6.15
5490	-2.65	6.19
5500	-2.11	6.73
5510	-2.39	6.40
5520	-2.40	6.27
5530	-2.15	6.49
5540	-2.56	5.94
5550	-2.16	6.37
5560	-1.94	6.38
5570	-1.41	6.76
5580	-1.90	6.20
5590	-1.83	6.47
5600	-1.52	6.72

Frequency [MHz]	Efficiency [dB]	Peak Gain [dBi]
5610	-1.86	6.24
5620	-1.78	6.47
5630	-1.70	6.39
5640	-1.97	6.12
5650	-1.90	6.43
5660	-1.81	6.42
5670	-1.63	6.55
5680	-1.67	6.38
5690	-1.69	6.22
5700	-1.70	6.19
5710	-1.57	6.32
5720	-1.65	6.10
5730	-2.11	5.64
5740	-2.06	5.79
5750	-1.36	6.23
5760	-1.99	5.51
5770	-2.16	5.51
5780	-1.67	5.78
5790	-2.25	5.31
5800	-1.83	5.77
5810	-1.73	5.88
5820	-1.98	5.34
5830	-1.92	5.26
5840	-1.68	5.37
5850	-2.21	5.01

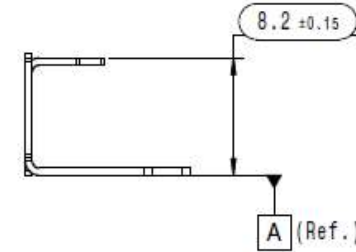
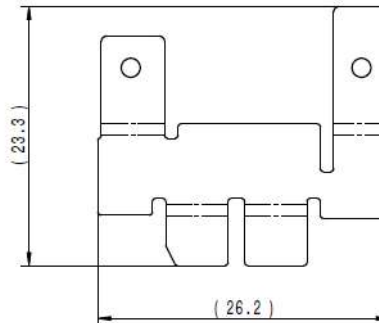
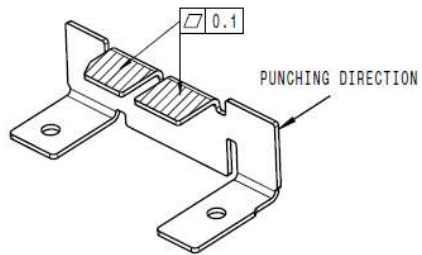
2. Antenna in Module

Antenna Model: A2C7863900000

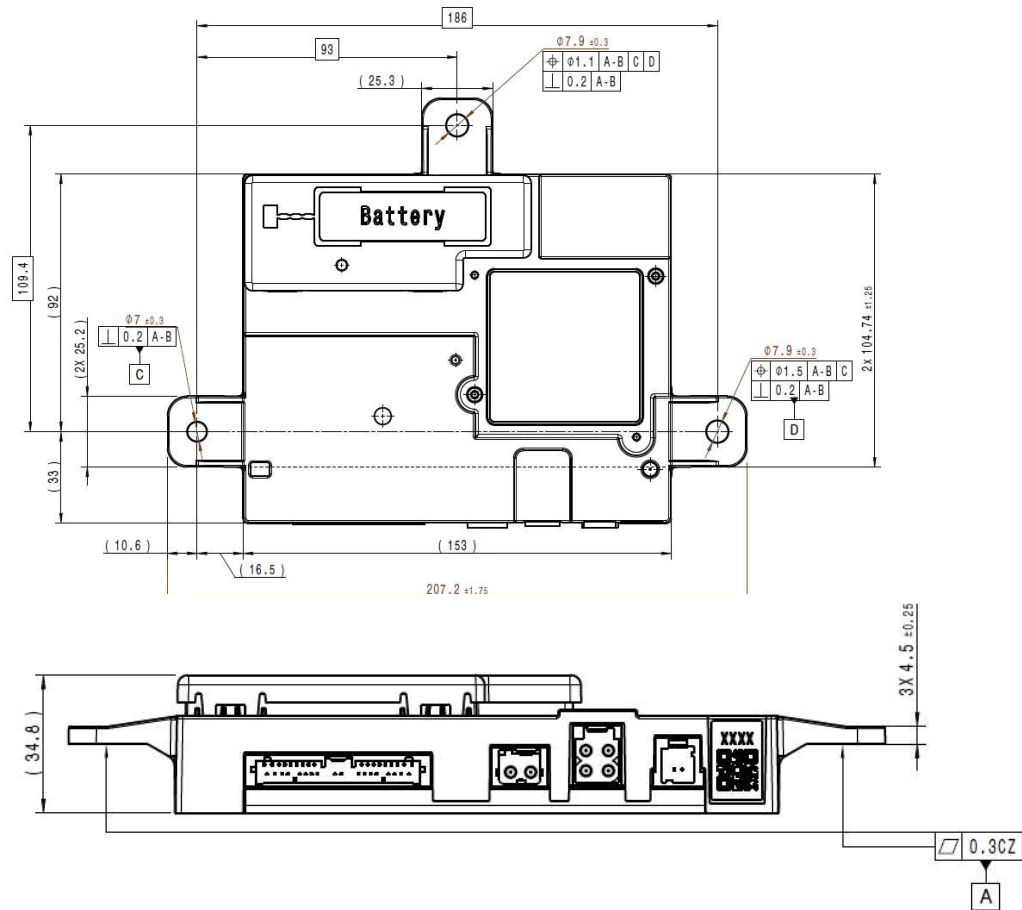
Antenna Manufacturer: MANSFIELD MANUFACTURING

Manufacturing address: No.105 New Sun Industrial City, Dongguan, China

Dimensions in mm



2. Antenna in Module – Module assembly



2. Antenna in Module – Module assembly

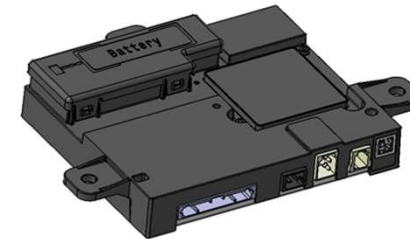
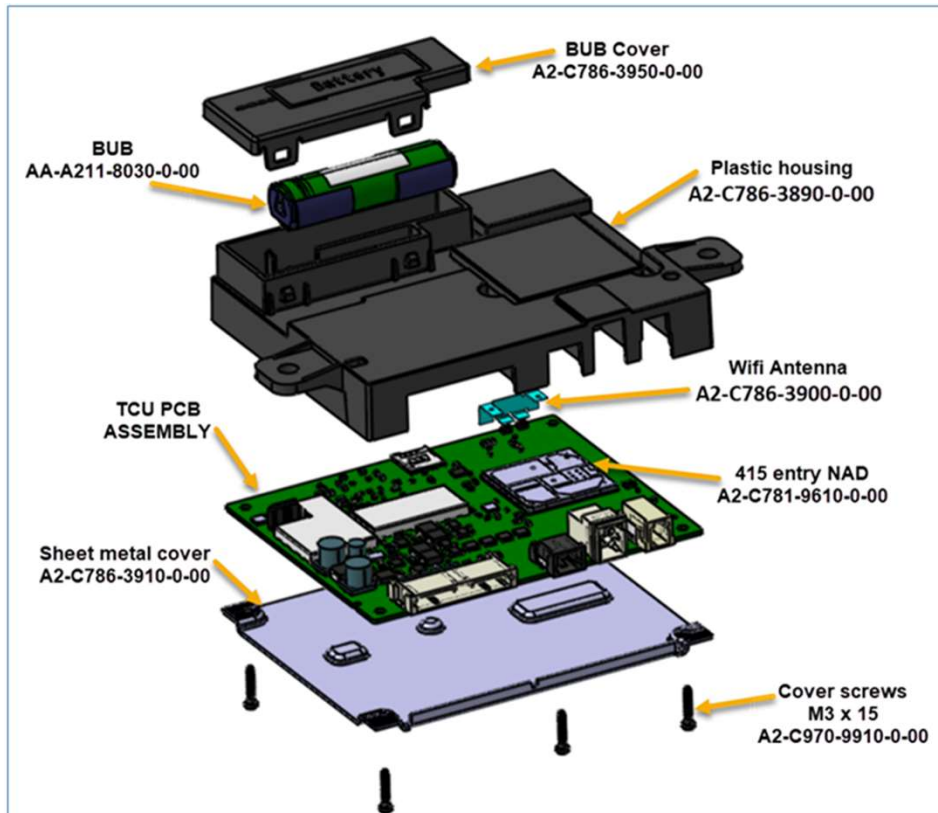


Figure 2 - Isometric View Top

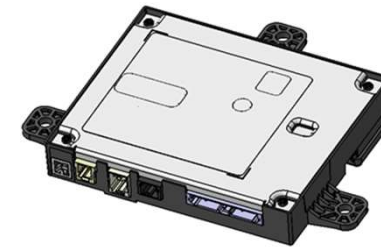
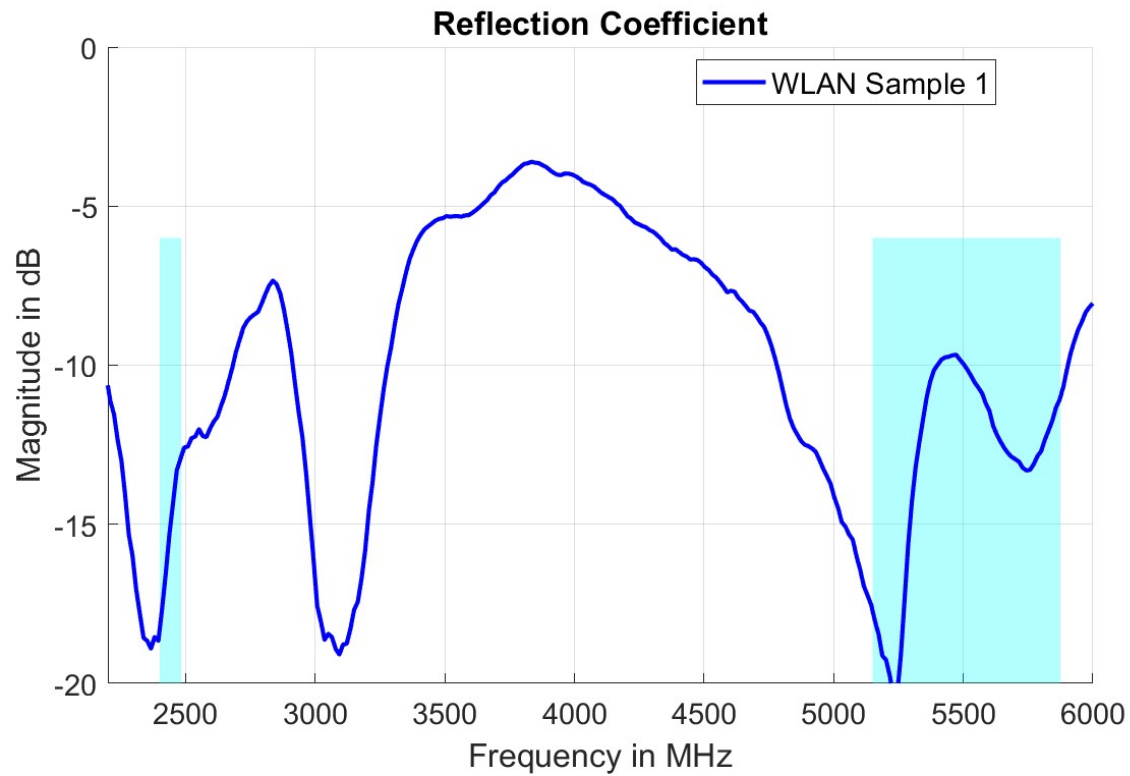


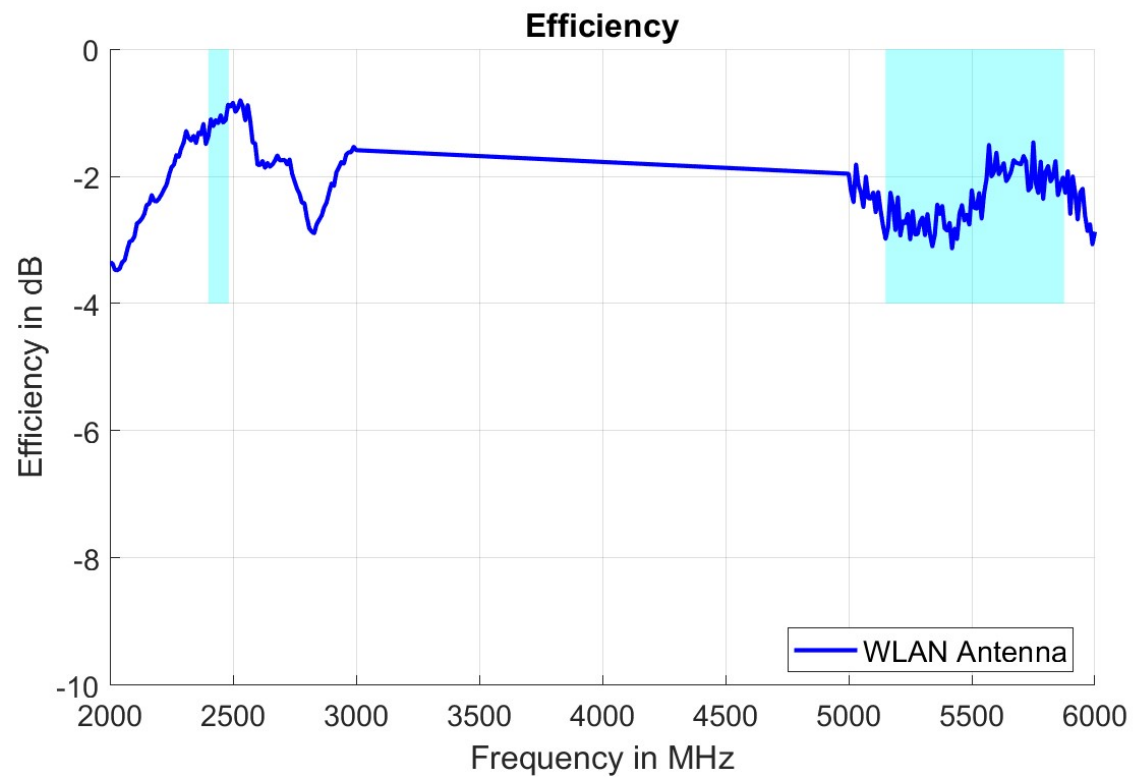
Figure 3 - Isometric View Bottom

3. Antenna Characterization

Reflection Coefficient

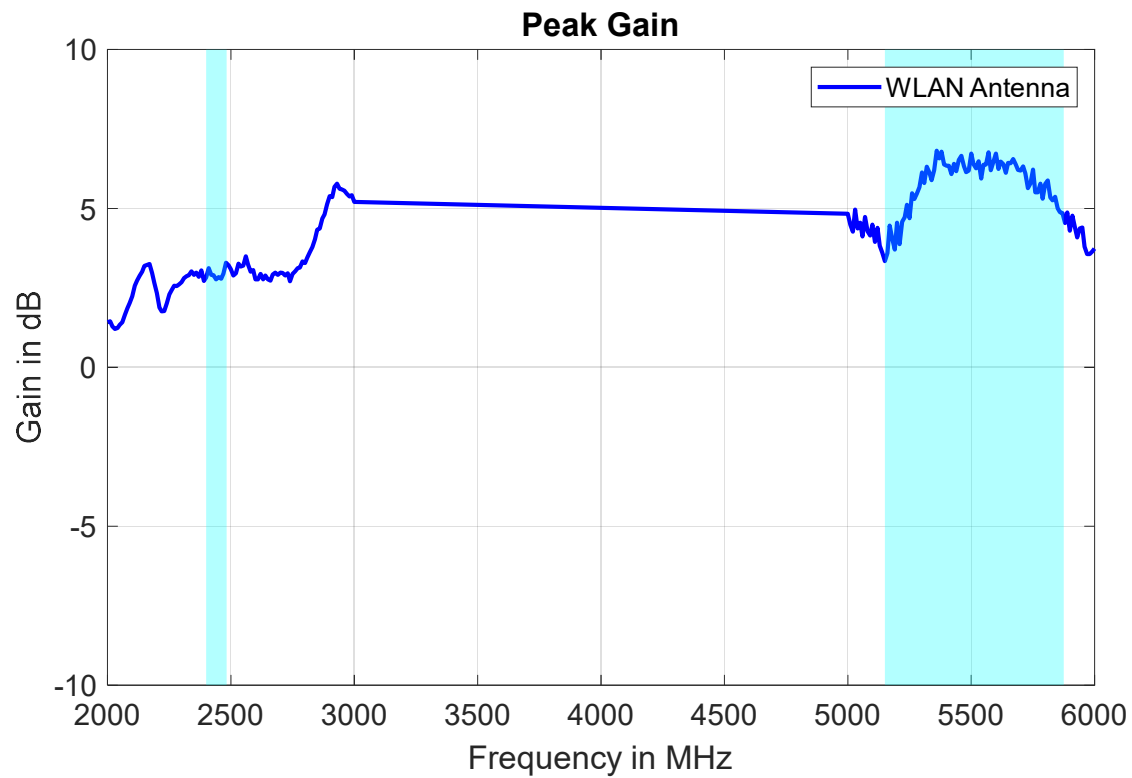


3. Antenna Characterization Efficiency



3. Antenna Characterization

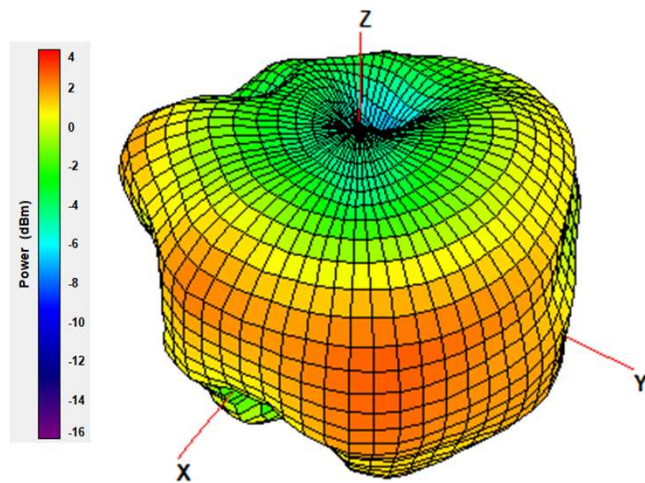
Peak Gain



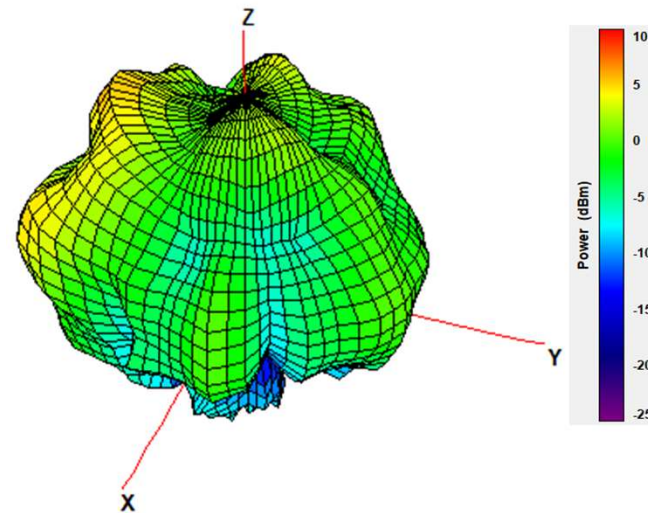
3. Antenna Radiation Patterns

3D Radiation Pattern

› 2.45GHz

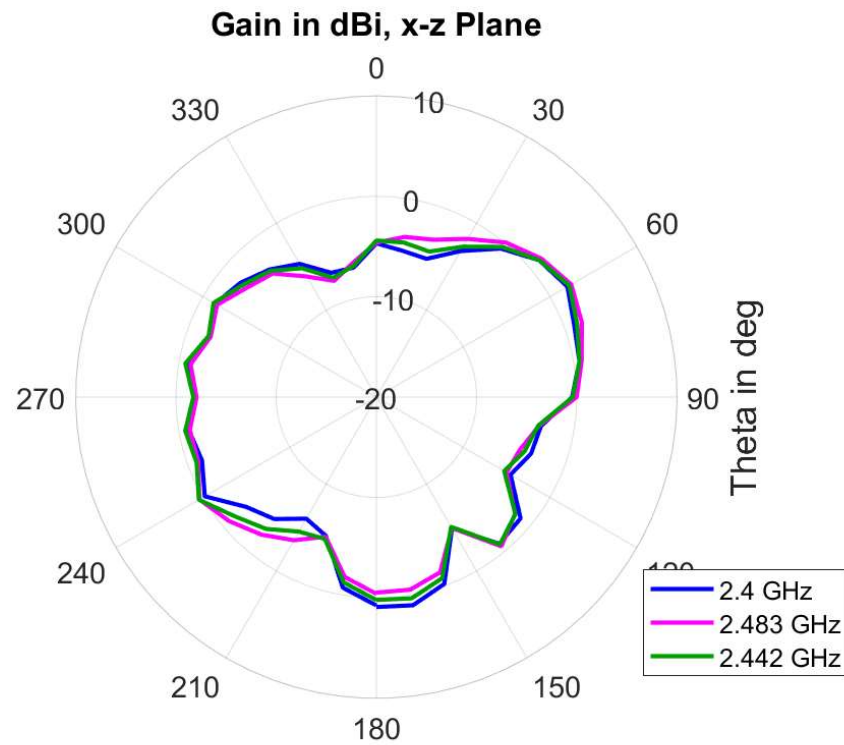


› 5GHz



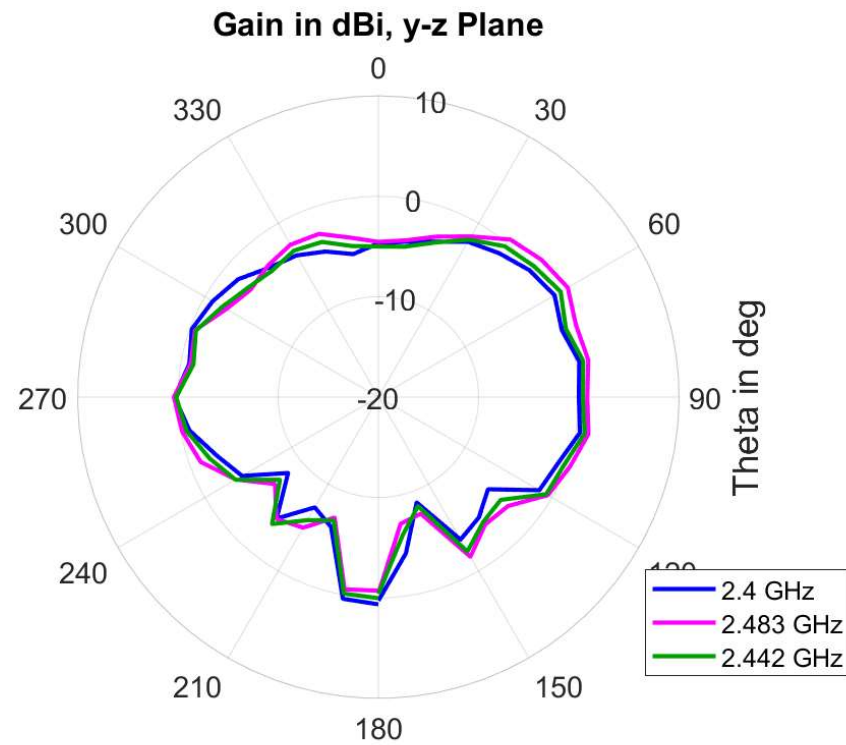
3. Antenna Radiation Patterns

2.4 GHz Band Radiation Pattern, x-z Plane



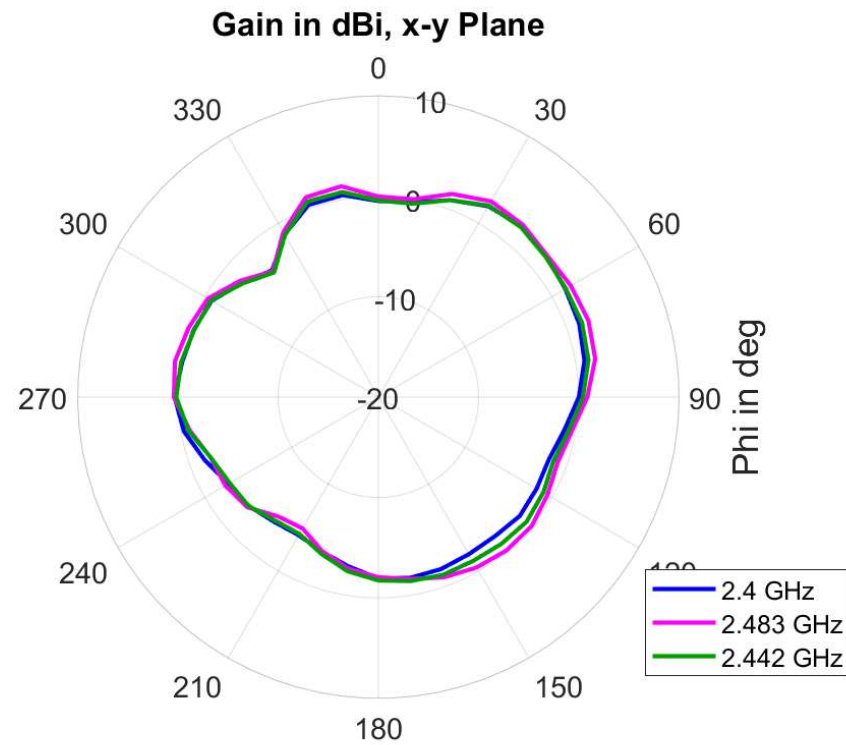
3. Antenna Radiation Patterns

2.4 GHz Band Radiation Pattern, y-z Plane



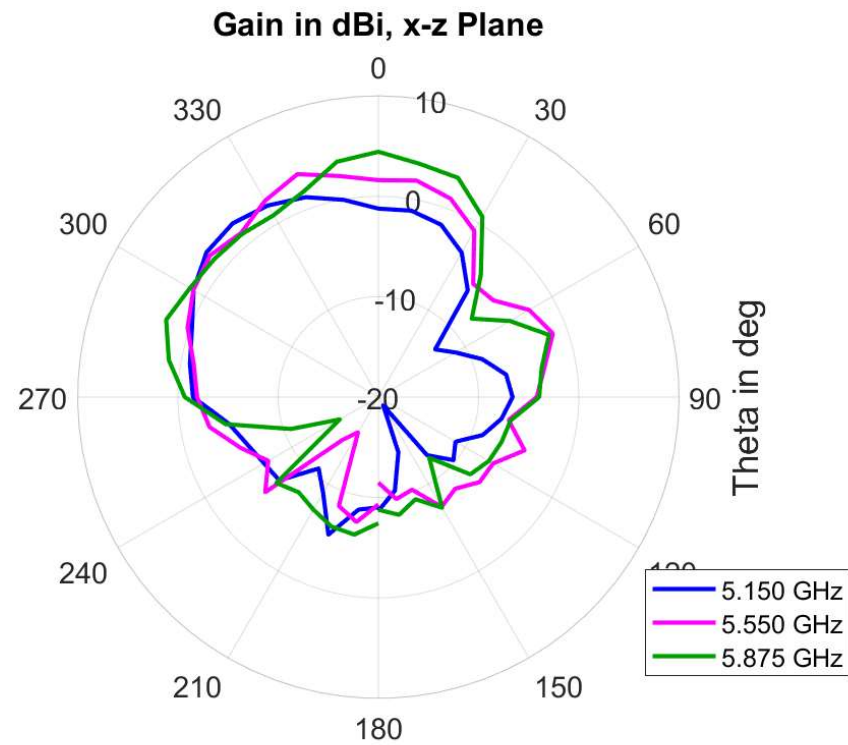
3. Antenna Radiation Patterns

2.4 GHz Band Radiation Pattern, x-y Plane



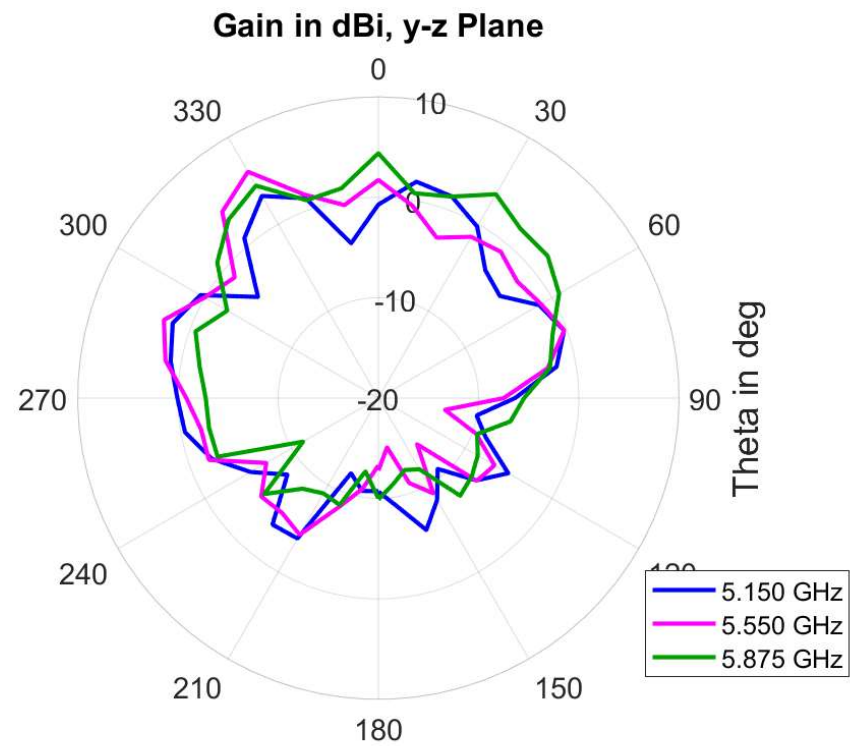
3. Antenna Radiation Patterns

5 GHz Band Radiation Pattern, x-z Plane



3. Antenna Radiation Patterns

5 GHz Band Radiation Pattern, y-z Plane



3. Antenna Radiation Patterns

5 GHz Band Radiation Pattern, x-y Plane

