5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

Slimline Series

- Triple band, XXX-Pol, variable tilt, diplexed panel antenna with 4 connectors
- Low band and one high band diplexed for common feeder sharing
- Independent tilt on each band 0-10° / 0-12° / 0-12°
- SlimLine™ profile for low wind load
- Available as a Manual or Remote Electrical Tilt Antenna, AISG v1.1 or 3GPP/AISG v2.0
- Patented internal RET actuator adds no additional length to the antenna (field replaceable)

Ordering Options	Model Number
Manual Electrical Tilt	5880112
Remote Electrical Tilt AISG v1.1	5880012
Remote Electrical Tilt 3GPP/AISG v2.0	5880012G

Other accessories are ordered separately.

Electrical Characteristics		880-960 MHz (Red)	1710-2170 MHz (White)		1710-2170 MHz (Blue)	
Frequency Bands (MHz)		880...960	1710...1880	1900...2170	1710...1880	1900...2170
Polarisation		±45°	±45°		±45°	
Horizontal Beamwidth		65°	65°	62°	65°	62°
Vertical Beamwidth		7°	7°	7°	7°	7°
Gain (dBi)	0° Tilt	16.8...17.3	16.3...16.5	16.5...17.0	16.5...16.9	16.9...17.3
	Mid Tilt	16.8...17.3	16.1...16.3	16.3...16.8	16.4...16.7	16.7...17.2
	Max Tilt	16.7...17.2	15.8...16.1	16.1...16.3	16.3...16.5	16.5...17.0
Electrical Downtilt		0-10°	0-12°		0-12°	
Impedance		50Ω	50Ω		50Ω	
VSWR		< 1.4	< 1.4		< 1.4	
Upper Sidelobe Suppression (typical)		18 dB	18 dB		18 dB	
Front-to-Back Ratio		> 30 dB	> 30 dB		> 30 dB	
Isolation Between Bands (inter-band; typical)		45 dB	45 dB		45 dB	
Isolation Between Ports (intra-band)		> 30 dB	> 30 dB		> 30 dB	
IM3 (2x20W carrier)		< -110 dBm	< -110 dBm		< -110 dBm	
Input Power		200 W	160 W		160 W	
Total Number of Connectors		Antenna has 4 connectors located at the bottom				
Connectors Per Band, Type, Location	Diplexed: 880-960/1710-2170 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom / Red & White Rings				
	1710-2170 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom / Blue Rings				
Operating Temperature		-40° to +60° C (-40° to +140° F)				

Mechanical Characteristics					
Shroud Material / Colour		Outdoor Plastic / Grey RAL7035			
Dimensions (Length x Width x Depth)		2688 x 253 x 147	mm	105.8 x 10.0 x 5.8	in
Weight without Mounting Brackets		27.5	kg	60.6	lbs
Operational Wind Speed		160	km/hr	100	mph
Survival Wind Speed		200	km/hr	124	mph
Wind Loads (160 km/hr or 100 mph) EN1991-4-1	Front	607	N	137	lbf
	Lateral	510	N	115	lbf
	Rear	944	N	212	lbf

3GPP A GLOBAL INITIATIVE

AISG

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

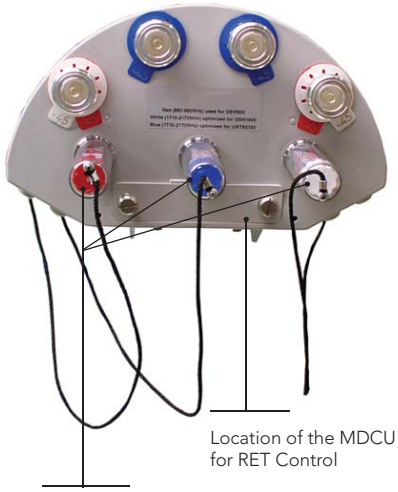
Packaging			
Packaging Dimensions (Height x Width x Depth)	2930 x 350 x 240 mm	115.4 x 13.8 x 9.4 in	
Packaging Weight	35 kg	77.2 lbs	
Environmental Characteristics			
Environmental	ETS 300 019		
RoHS Compliant	Yes		
Electrical Downtilt Control			
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).			
Manual Electrical Tilt (MET) Control	A coloured knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob colour is identical to the corresponding connector ring colour. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.		
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). This module does not add any additional length at the bottom of the antenna. For RET control, the transparent cap must be in place and locked. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override).		
RET Module	The RET module is factory installed and does not need to be ordered separately.		
	Part Number for AISG v1.1 protocol:	MDCU-A0000	One unit installed in 5880012
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in 5880012G
Important Installation Instructions 	In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.		
	Do not install the antenna with the connectors facing upward.		

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.				
2-Point Mounting Bracket Kit	0900181/00		48-115 mm 1.9-4.5 in	3.4 kg 7.5 lbs
2-Point Mounting Bracket Kit	0900182/00		70-150 mm 2.8-5.9 in	3.9 kg 8.6 lbs
Kit to Add Mechanical Tilt (0-10°) to Above Brackets (optional)	0900396/00		---	2.3 kg 5.1 lbs

5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

Bottom View of Antenna

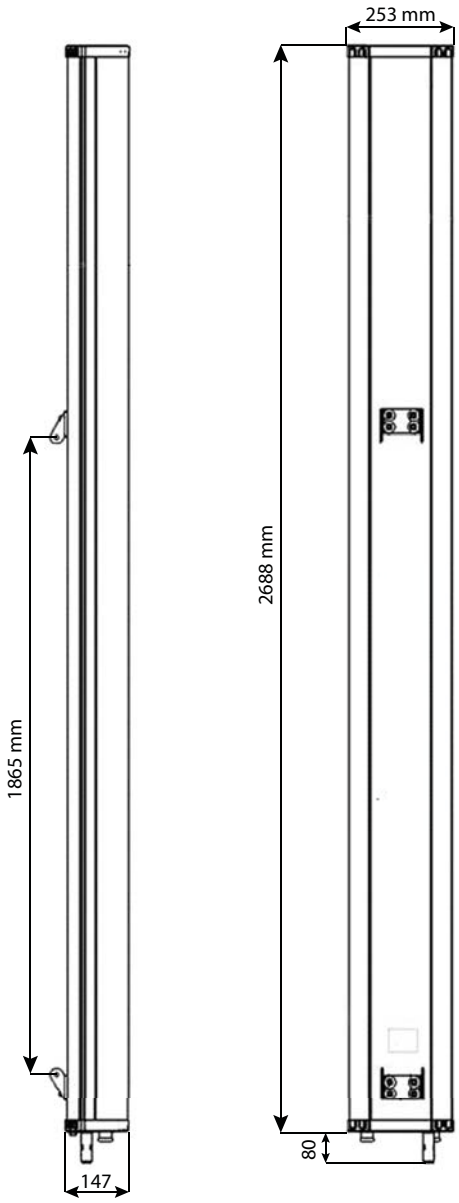


Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colours are the same as the connectors.

Red: 880-960 MHz
White: 1710-2170 MHz; top array; optimised for DCS1800
Blue: 1710-2170 MHz; bottom array; optimised for UMTS2100

In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

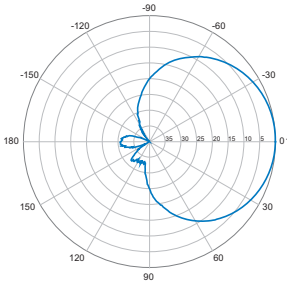
Dimensions



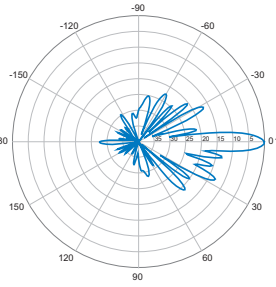
5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

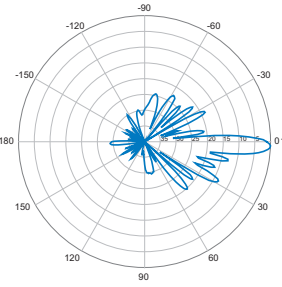
880-960 MHz



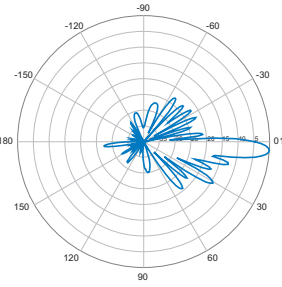
Horizontal | 920 MHz



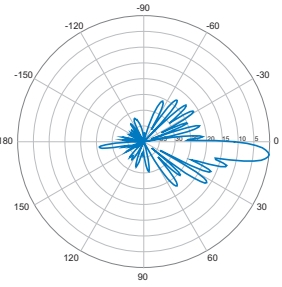
0° | Vertical | 920 MHz



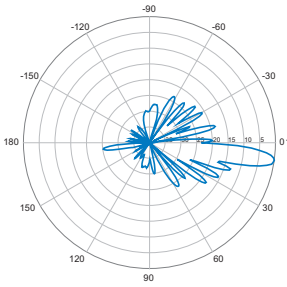
2° | Vertical | 920 MHz



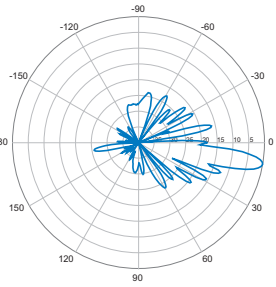
4° | Vertical | 920 MHz



6° | Vertical | 920 MHz

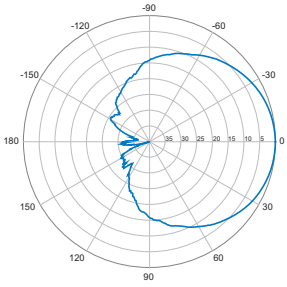


8° | Vertical | 920 MHz

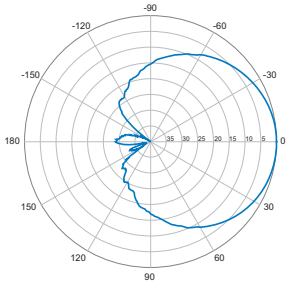


10° | Vertical | 920 MHz

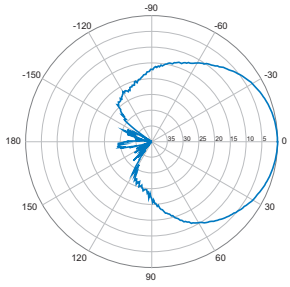
1710-2170 MHz (White)



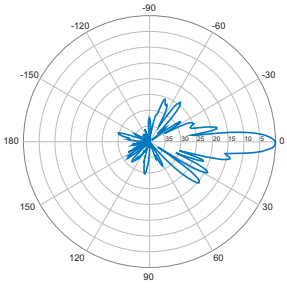
Horizontal | 1802 MHz



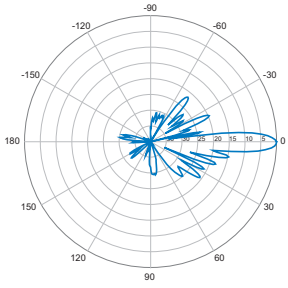
Horizontal | 1894 MHz



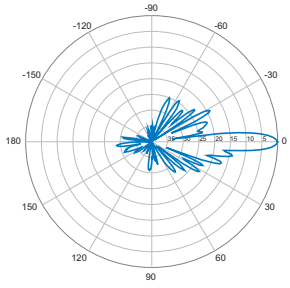
Horizontal | 2078 MHz



0° | Vertical | 1802 MHz



0° | Vertical | 1894 MHz

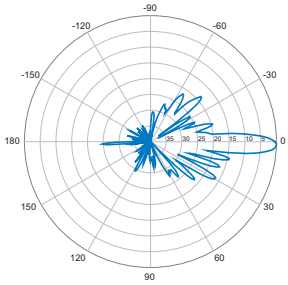


0° | Vertical | 2078 MHz

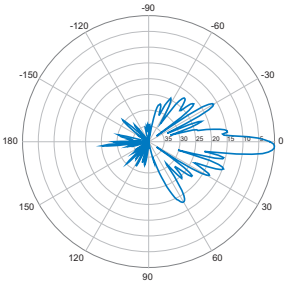
5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

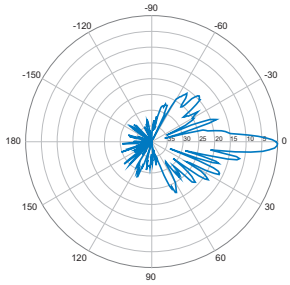
1710-2170 MHz (White)



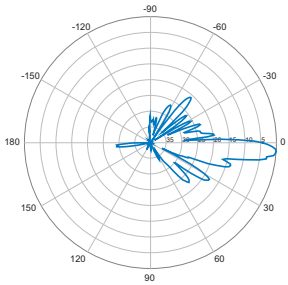
2° | Vertical | 1802 MHz



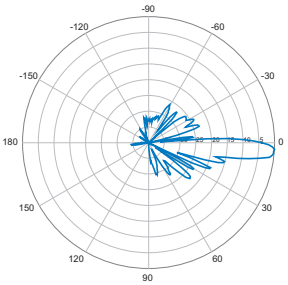
2° | Vertical | 1894 MHz



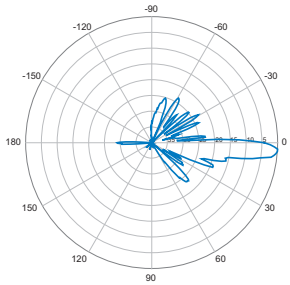
2° | Vertical | 2078 MHz



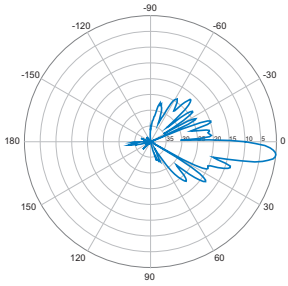
4° | Vertical | 1802 MHz



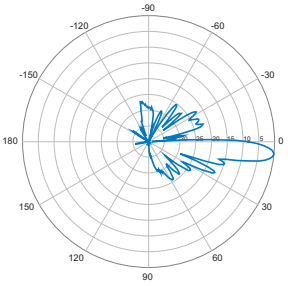
4° | Vertical | 1894 MHz



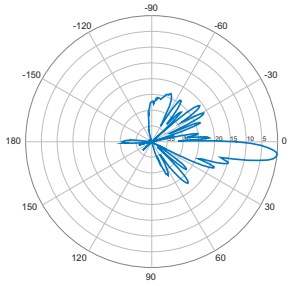
4° | Vertical | 2078 MHz



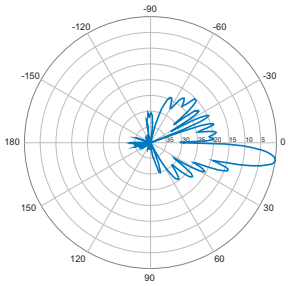
6° | Vertical | 1802 MHz



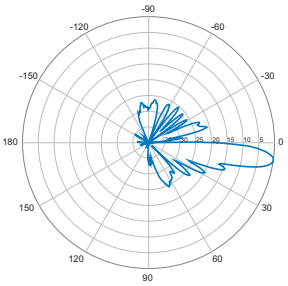
6° | Vertical | 1894 MHz



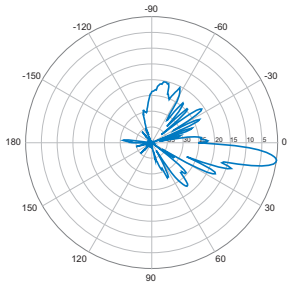
6° | Vertical | 2078 MHz



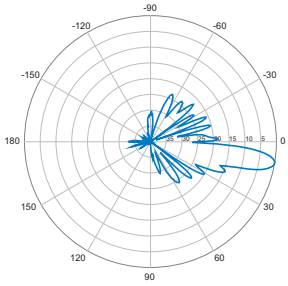
8° | Vertical | 1802 MHz



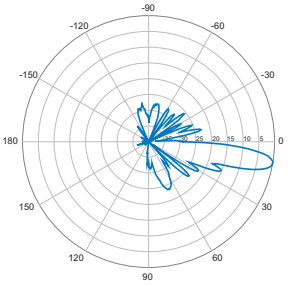
8° | Vertical | 1894 MHz



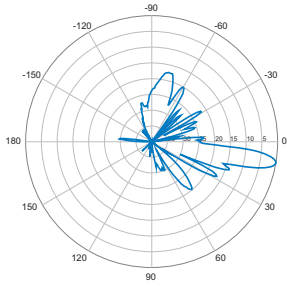
8° | Vertical | 2078 MHz



10° | Vertical | 1802 MHz



10° | Vertical | 1894 MHz

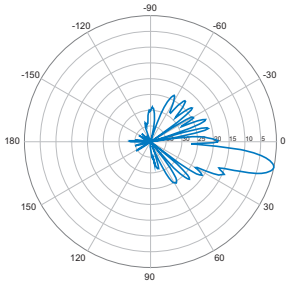


10° | Vertical | 2078 MHz

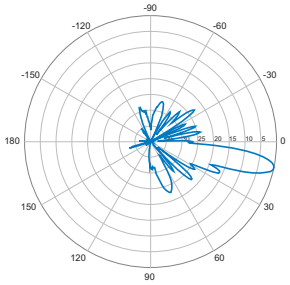
5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

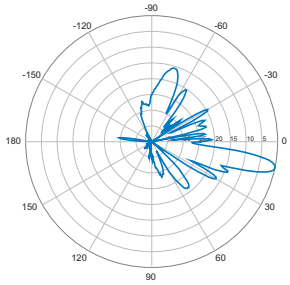
1710-2170 MHz (White)



12° | Vertical | 1802 MHz

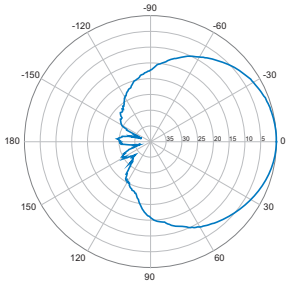


12° | Vertical | 1894 MHz

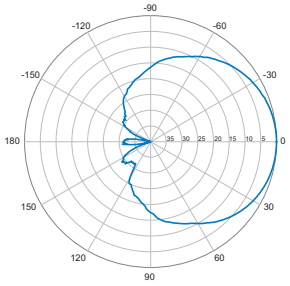


12° | Vertical | 2078 MHz

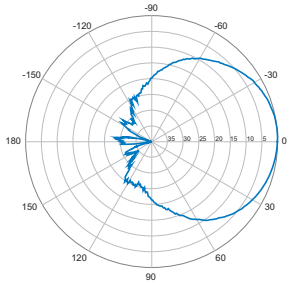
1710-2170 MHz (Blue)



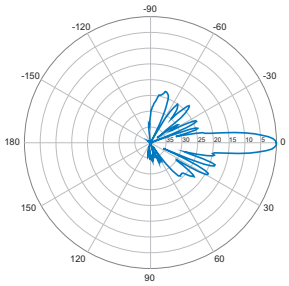
Horizontal | 1802 MHz



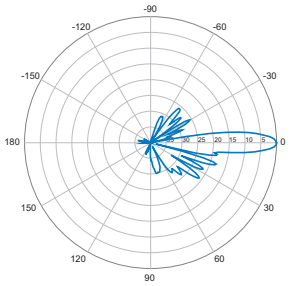
Horizontal | 1894 MHz



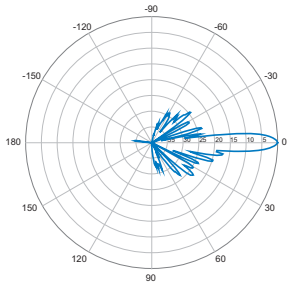
Horizontal | 2078 MHz



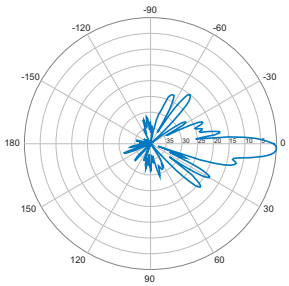
0° | Vertical | 1802 MHz



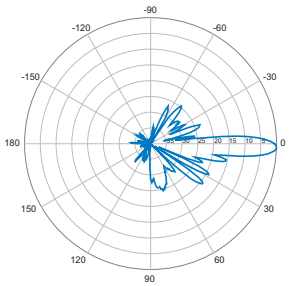
0° | Vertical | 1894 MHz



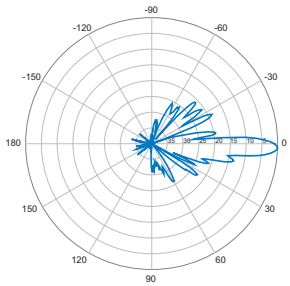
0° | Vertical | 2078 MHz



2° | Vertical | 1802 MHz



2° | Vertical | 1894 MHz

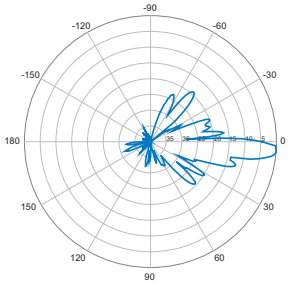


2° | Vertical | 2078 MHz

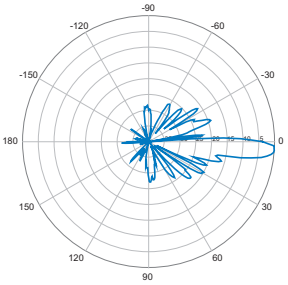
5880112

Tri Band | Panel Antenna | XXX-Pol | 65° / 65° / 65° | 17.3 / 17.0 / 17.3 dBi | Variable Tilt | Diplexed

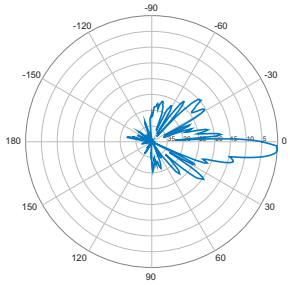
1710-2170 MHz (Blue)



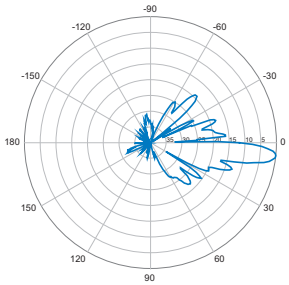
4° | Vertical | 1802 MHz



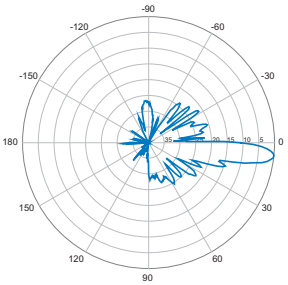
4° | Vertical | 1894 MHz



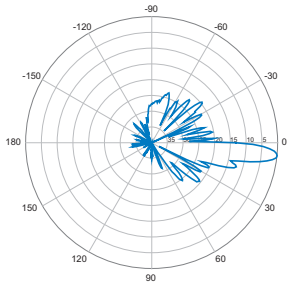
4° | Vertical | 2078 MHz



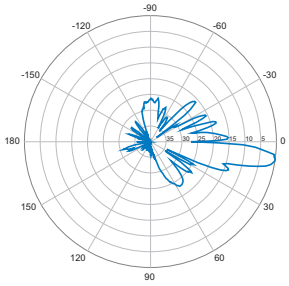
6° | Vertical | 1802 MHz



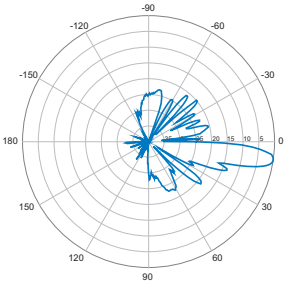
6° | Vertical | 1894 MHz



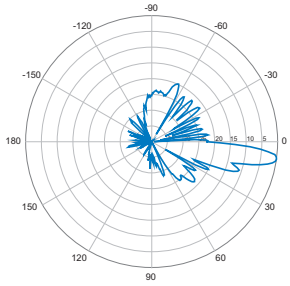
6° | Vertical | 2078 MHz



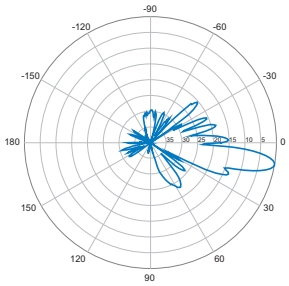
8° | Vertical | 1802 MHz



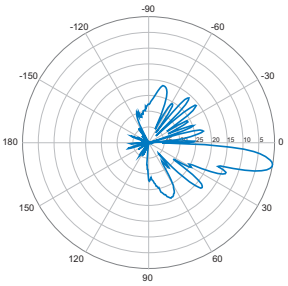
8° | Vertical | 1894 MHz



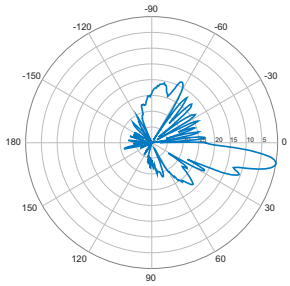
8° | Vertical | 2078 MHz



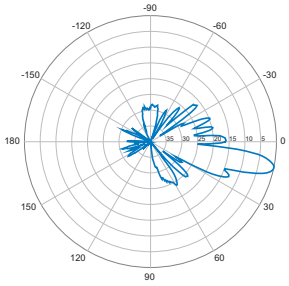
10° | Vertical | 1802 MHz



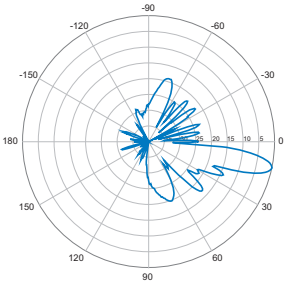
10° | Vertical | 1894 MHz



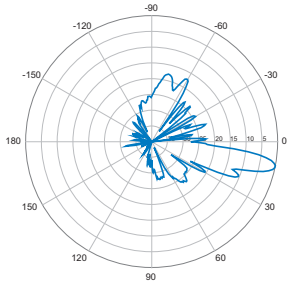
10° | Vertical | 2078 MHz



12° | Vertical | 1802 MHz



12° | Vertical | 1894 MHz



12° | Vertical | 2078 MHz