

Antenna specification

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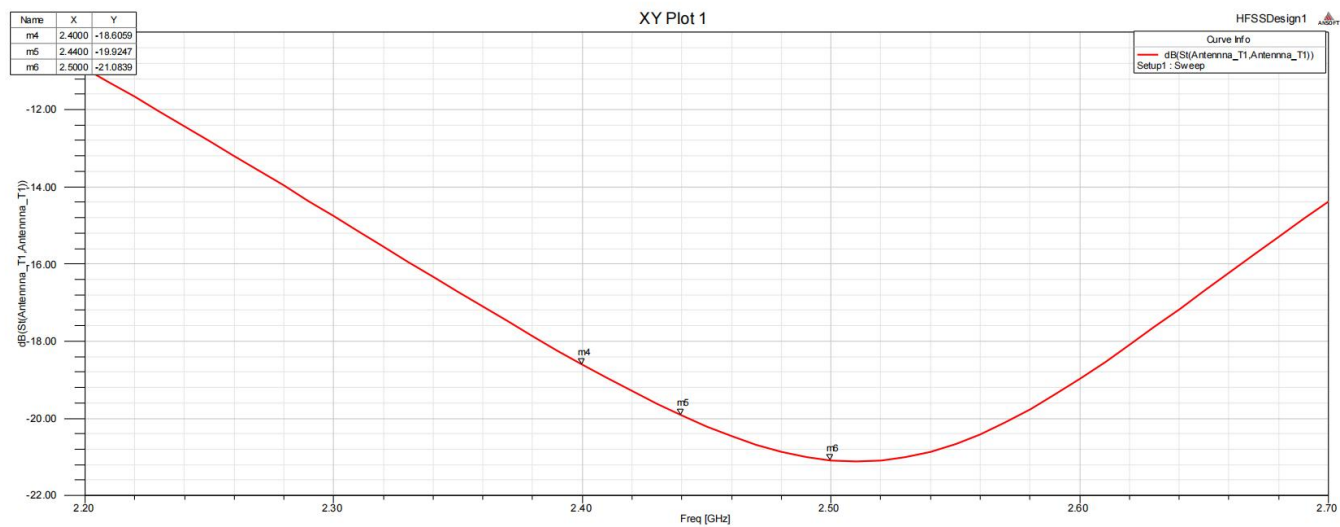
(1) Installation mode	Onboard antenna
(2) Antenna type	Serpentine antenna
(3) Antenna length	17.5mm
(4) Antenna width	1.5mm
(5) Frequency	2.4G



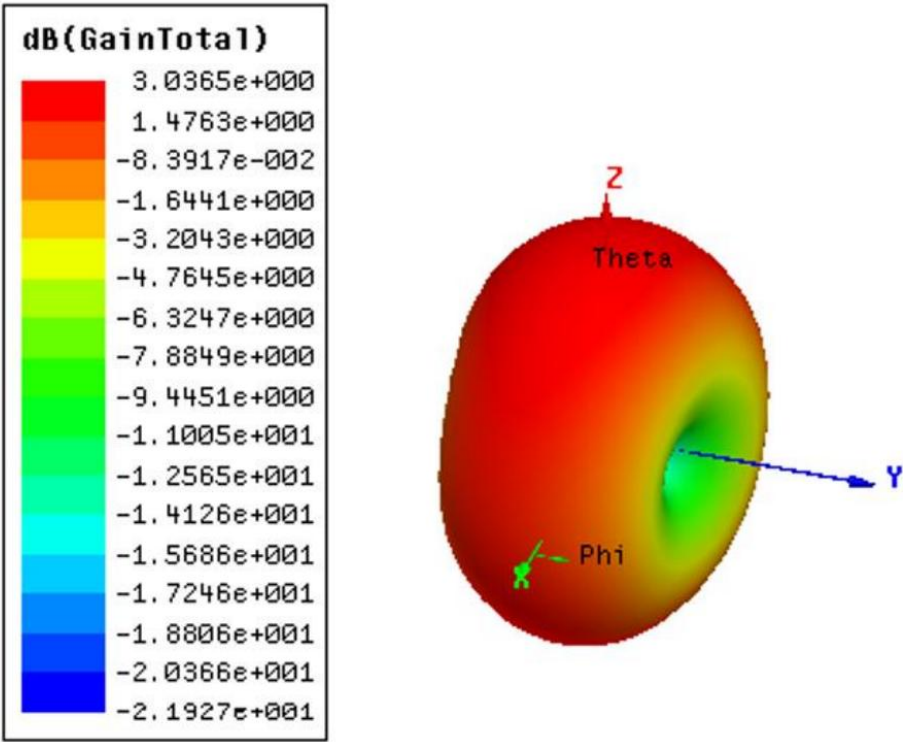
Electrical Specification

(1) Working Frequency Range	2400~2500 MHz
(2) Peak Gain	2.95dBi (Typ.)
(3) Impedance	50 Ohm
(4) VSWR	2.5(Max)
(5) Polarization	Linear
(6) Azimuth Beamwidth	Omni-directional

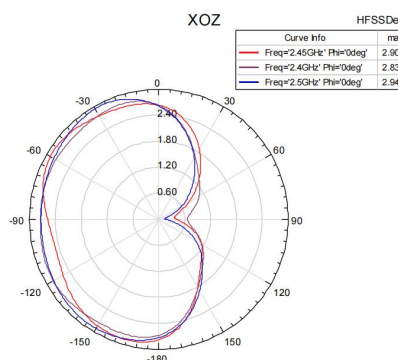
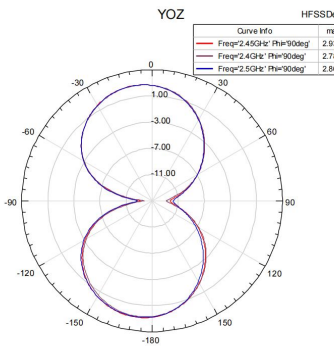
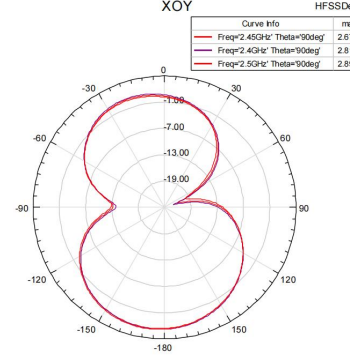
S11 Figure



Radiation Figure



Antenna Radiation Pattern

	ZX plane		ZY plane		XY plane																								
Frequency	Max Value	Average	Max Value	Average	Max Value	Average																							
[MHz]	[dBi]	[dBi]	[dBi]	[dBi]	[dBi]	[dBi]																							
2400	2.91	2.09	2.93	-3.00	2.67	-4.14																							
2450	2.83	2.13	2.78	-3.12	2.81	-4.13																							
2500	2.95	2.07	2.87	-3.00	2.89	-4.05																							
Radiation Pattern XOZ		Radiation Pattern YOZ		Radiation Pattern XOY																									
XOZ HFSSDesi <table><thead><tr><th>Curve Info</th><th>max</th></tr></thead><tbody><tr><td>Freq=2.45GHz, Phi=0deg</td><td>2.908</td></tr><tr><td>Freq=2.4GHz, Phi=0deg</td><td>2.833</td></tr><tr><td>Freq=2.5GHz, Phi=0deg</td><td>2.946</td></tr></tbody></table>		Curve Info	max	Freq=2.45GHz, Phi=0deg	2.908	Freq=2.4GHz, Phi=0deg	2.833	Freq=2.5GHz, Phi=0deg	2.946	YOZ HFSSDesign <table><thead><tr><th>Curve Info</th><th>max</th></tr></thead><tbody><tr><td>Freq=2.45GHz, Phi=90deg</td><td>2.9354</td></tr><tr><td>Freq=2.4GHz, Phi=90deg</td><td>2.7809</td></tr><tr><td>Freq=2.5GHz, Phi=90deg</td><td>2.8898</td></tr></tbody></table>		Curve Info	max	Freq=2.45GHz, Phi=90deg	2.9354	Freq=2.4GHz, Phi=90deg	2.7809	Freq=2.5GHz, Phi=90deg	2.8898	XOY HFSSDesign <table><thead><tr><th>Curve Info</th><th>max</th></tr></thead><tbody><tr><td>Freq=2.45GHz, Theta=90deg</td><td>2.6711</td></tr><tr><td>Freq=2.4GHz, Theta=90deg</td><td>2.8128</td></tr><tr><td>Freq=2.5GHz, Theta=90deg</td><td>2.8940</td></tr></tbody></table>		Curve Info	max	Freq=2.45GHz, Theta=90deg	2.6711	Freq=2.4GHz, Theta=90deg	2.8128	Freq=2.5GHz, Theta=90deg	2.8940
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The Environment of Antenna Radiation Pattern

