

Antenna Information

Section 1. Antenna Assembly Specifications

Clamshell mode

1A Antenna Part Number	1B Manu- facture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
LA9RF424-CS-H Main Antenna	ASAP	PIFA	50 ohm Coaxial Length: 125.7 mm Diameter: 1.13 mm Low Loss Connector: IPEX 20565-001R-13	2400-2483.5	1.43 dBi, (peak)	1.78 dBi, (peak)	2 dBi, (peak)	0.35 dB, (peak)
				5150-5250	4.00 dBi, (peak)	4.52 dBi, (peak)	2 dBi, (peak)	0.52 dB, (peak)
				5250-5350	4.00 dBi, (peak)	4.52 dBi, (peak)	2 dBi, (peak)	0.52 dB, (peak)
				5470-5725	4.85 dBi, (peak)	5.39 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5725-5850	4.89 dBi, (peak)	5.43 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5850-5895	4.70 dBi, (peak)	5.24 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5925-6425	4.73 dBi, (peak)	5.29 dBi, (peak)	2 dBi, (peak)	0.56 dB, (peak)
				6425-6525	4.21 dBi, (peak)	4.79 dBi, (peak)	2 dBi, (peak)	0.58 dB, (peak)
				6525-6875	4.57 dBi, (peak)	5.17 dBi, (peak)	2 dBi, (peak)	0.6 dB, (peak)
				6875-7125	4.06 dBi, (peak)	4.67 dBi, (peak)	2 dBi, (peak)	0.61 dB, (peak)
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
LA9RF425-CS-H Aux Antenna	ASAP	PIFA	50 ohm Coaxial Length: 292.4 mm Diameter: 1.13 mm Low Loss Connector: IPEX 20565-001R-13	2400-2483.5	1.40 dBi, (peak)	2.21 dBi, (peak)	2 dBi, (peak)	0.81 dB, (peak)
				5150-5250	2.49 dBi, (peak)	3.69 dBi, (peak)	2 dBi, (peak)	1.2 dB, (peak)
				5250-5350	2.49 dBi, (peak)	3.70 dBi, (peak)	2 dBi, (peak)	1.21 dB, (peak)
				5470-5725	3.59 dBi, (peak)	4.84 dBi, (peak)	2 dBi, (peak)	1.25 dB, (peak)
				5725-5850	4.49 dBi, (peak)	5.75 dBi, (peak)	2 dBi, (peak)	1.26 dB, (peak)
				5850-5895	4.16 dBi, (peak)	5.42 dBi, (peak)	2 dBi, (peak)	1.26 dB, (peak)
				5925-6425	4.04 dBi, (peak)	5.35 dBi, (peak)	2 dBi, (peak)	1.31 dB, (peak)
				6425-6525	2.02 dBi, (peak)	3.37 dBi, (peak)	2 dBi, (peak)	1.35 dB, (peak)
				6525-6875	4.53 dBi, (peak)	5.91 dBi, (peak)	2 dBi, (peak)	1.38 dB, (peak)
				6875-7125	3.82 dBi, (peak)	5.25 dBi, (peak)	2 dBi, (peak)	1.43 dB, (peak)

• 3D Antenna Peak Gain required being test in system basis

Regulatory WLAN Antenna Information

Tablet Mode

1A Antenna Part Number	1B Manu- facture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
LA9RF424-CS-H Main Antenna	ASAP	PIFA	50 ohm Coaxial Length: mm Diamter: mm Connector: IPEX 20565-001R-13	2400-2483.5	1.08 dBi, (peak)	1.43 dBi, (peak)	2 dBi, (peak)	0.35 dB, (peak)
				5150-5250	4.50 dBi, (peak)	5.02 dBi, (peak)	2 dBi, (peak)	0.52 dB, (peak)
				5250-5350	4.89 dBi, (peak)	5.41 dBi, (peak)	2 dBi, (peak)	0.52 dB, (peak)
				5470-5725	4.85 dBi, (peak)	5.39 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5725-5850	4.85 dBi, (peak)	5.39 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5850-5895	4.63 dBi, (peak)	5.17 dBi, (peak)	2 dBi, (peak)	0.54 dB, (peak)
				5925-6425	4.73 dBi, (peak)	5.29 dBi, (peak)	2 dBi, (peak)	0.56 dB, (peak)
				6425-6525	4.21 dBi, (peak)	4.79 dBi, (peak)	2 dBi, (peak)	0.58 dB, (peak)
				6525-6875	4.56 dBi, (peak)	5.16 dBi, (peak)	2 dBi, (peak)	0.6 dB, (peak)
				6875-7125	4.05 dBi, (peak)	4.66 dBi, (peak)	2 dBi, (peak)	0.61 dB, (peak)
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
LA9RF425-CS-H Aux Antenna	ASAP	PIFA	50 ohm Coaxial Length: mm Diamter: mm Connector: IPEX 20565-001R-13	2400-2483.5	0.47 dBi, (peak)	1.28 dBi, (peak)	2 dBi, (peak)	0.81 dB, (peak)
				5150-5250	2.38 dBi, (peak)	3.58 dBi, (peak)	2 dBi, (peak)	1.2 dB, (peak)
				5250-5350	2.38 dBi, (peak)	3.59 dBi, (peak)	2 dBi, (peak)	1.21 dB, (peak)
				5470-5725	1.98 dBi, (peak)	3.23 dBi, (peak)	2 dBi, (peak)	1.25 dB, (peak)
				5725-5850	1.70 dBi, (peak)	2.96 dBi, (peak)	2 dBi, (peak)	1.26 dB, (peak)
				5850-5895	2.06 dBi, (peak)	3.32 dBi, (peak)	2 dBi, (peak)	1.26 dB, (peak)
				5925-6425	3.16 dBi, (peak)	4.47 dBi, (peak)	2 dBi, (peak)	1.31 dB, (peak)
				6425-6525	2.28 dBi, (peak)	3.63 dBi, (peak)	2 dBi, (peak)	1.35 dB, (peak)
				6525-6875	3.75 dBi, (peak)	4.95 dBi, (peak)	2 dBi, (peak)	1.38 dB, (peak)
				6875-7125	3.78 dBi, (peak)	5.21 dBi, (peak)	2 dBi, (peak)	1.43 dB, (peak)

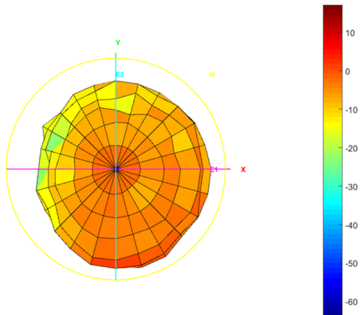
• 3D Antenna Peak Gain required being test in system basis

Section 3. Radiation characteristics of antennae Loaded in Host Platform

Clamshell mode

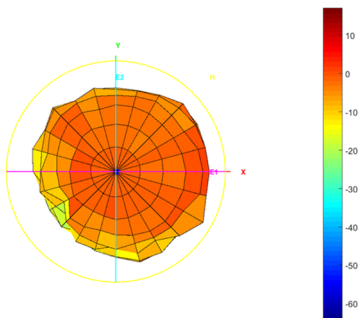
Main antenna

Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



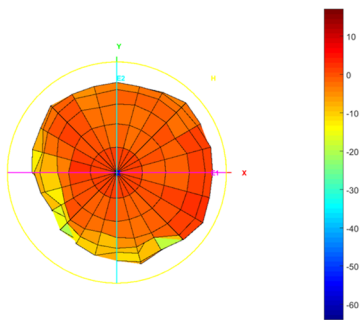
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.43

Max Antenna 3D Radiation Pattern 5150-5250 MHz



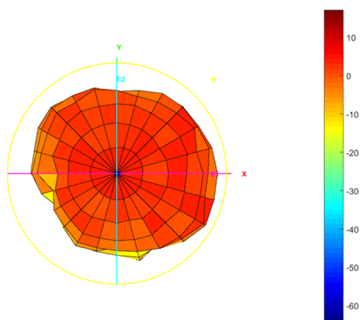
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.00

Max Antenna 3D Radiation Pattern 5250-5350 MHz



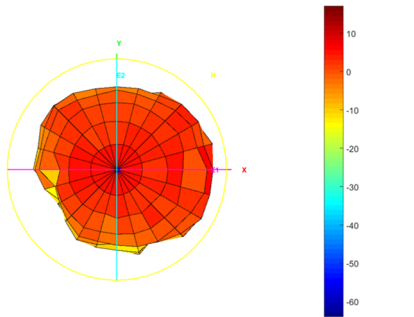
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	4.00

Max Antenna 3D Radiation Pattern 5470-5725 MHz



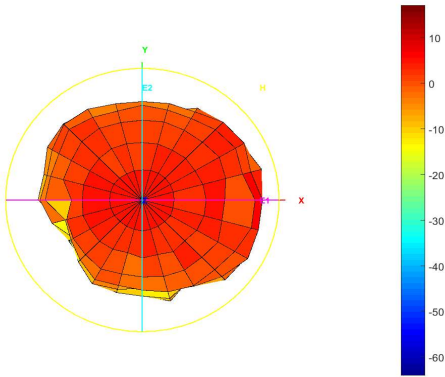
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.85

Max Antenna 3D Radiation Pattern 5725-5850 MHz



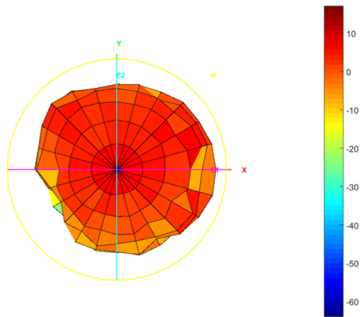
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.89

Max Antenna 3D Radiation Pattern 5850-5895 MHz



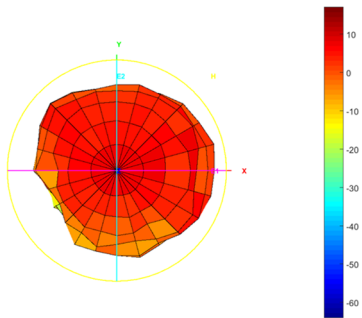
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.70

Max Antenna 3D Radiation Pattern 5925-6425 MHz



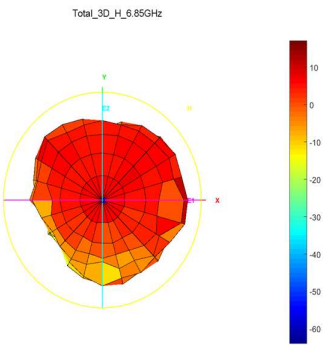
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.73

Max Antenna 3D Radiation Pattern 6425-6525 MHz



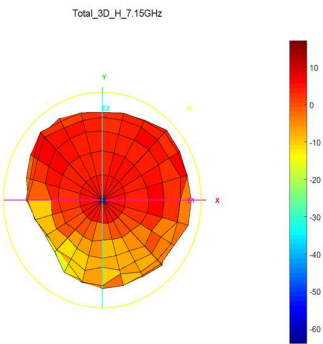
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.21

Max Antenna 3D Radiation Pattern 6525-6875 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.57

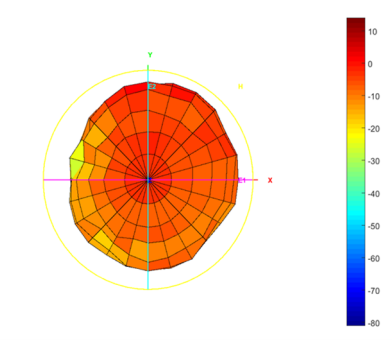
Max Antenna 3D Radiation Pattern 6875-7125 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	4.06

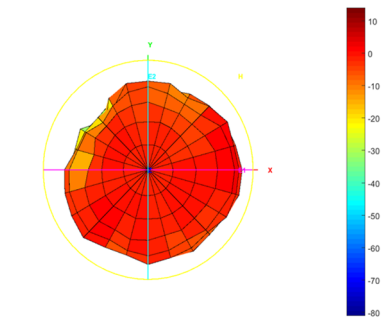
Auxiliary Antenna

Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



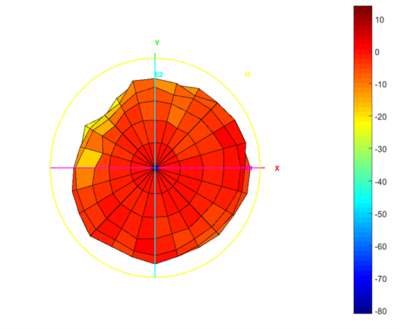
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.40

Max Antenna 3D Radiation Pattern 5150-5250 MHz



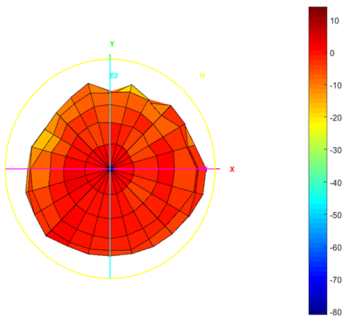
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.49

Max Antenna 3D Radiation Pattern 5250-5350 MHz



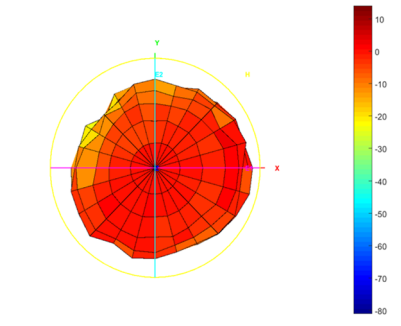
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.49

Max Antenna 3D Radiation Pattern 5470-5725 MHz



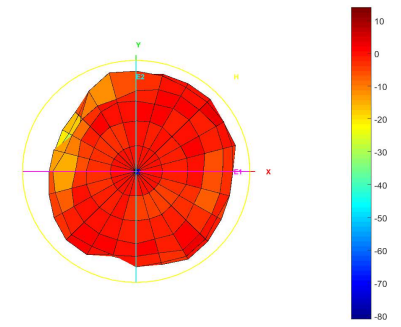
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.59

Max Antenna 3D Radiation Pattern 5725-5850 MHz



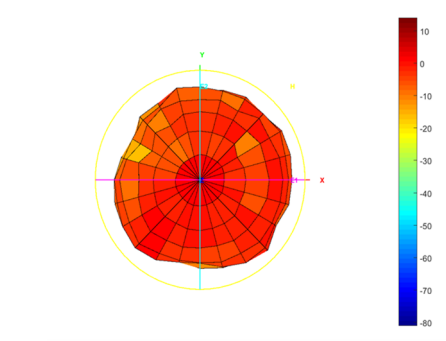
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.49

Max Antenna 3D Radiation Pattern 5850-5895 MHz



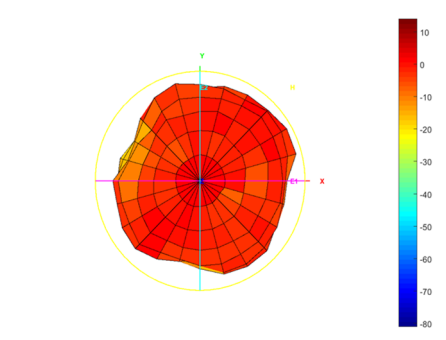
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.16

Max Antenna 3D Radiation Pattern 5925-6425 MHz



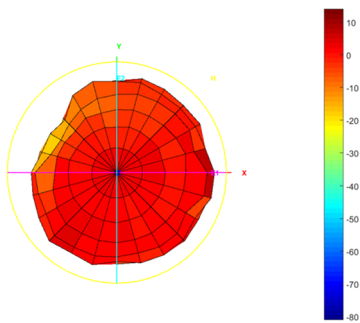
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.04

Max Antenna 3D Radiation Pattern 6425-6525 MHz



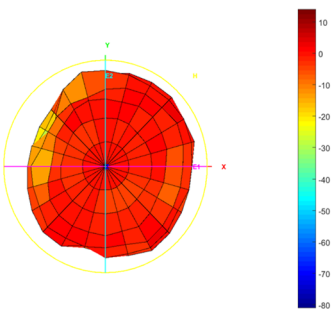
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.02

Max Antenna 3D Radiation Pattern 6525-6875 MHz



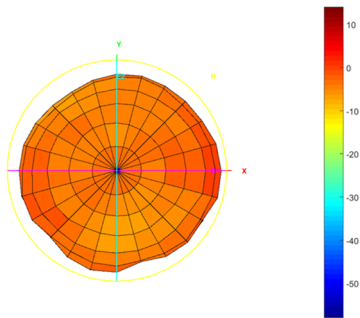
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.53

Max Antenna 3D Radiation Pattern 6875-7125 MHz



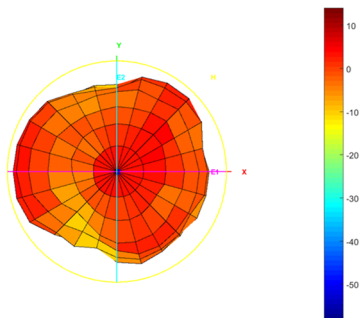
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.82

Tablet mode
Main antenna
Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



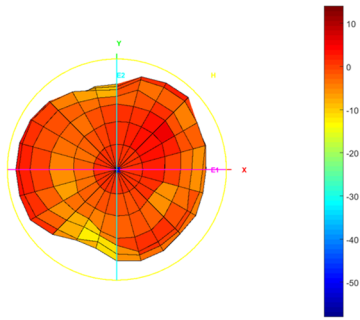
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.08

Max Antenna 3D Radiation Pattern 5150-5250 MHz



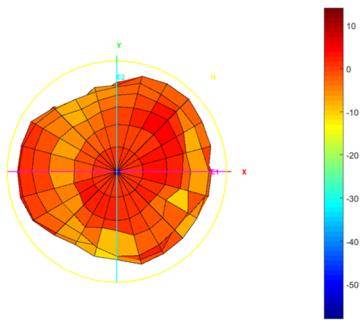
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.50

Max Antenna 3D Radiation Pattern 5250-5350 MHz



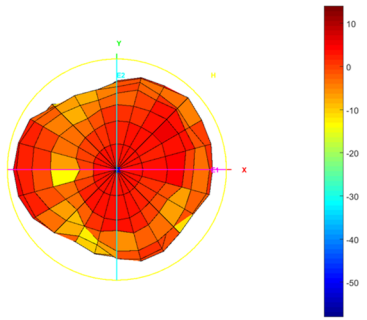
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	4.89

Max Antenna 3D Radiation Pattern 5470-5725 MHz



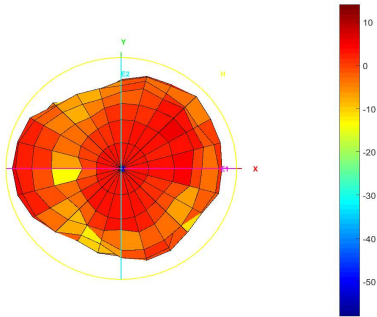
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.85

Max Antenna 3D Radiation Pattern 5725-5850 MHz



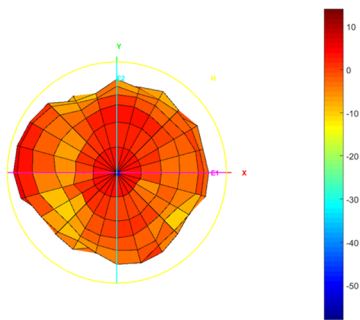
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.85

Max Antenna 3D Radiation Pattern 5850-5895 MHz



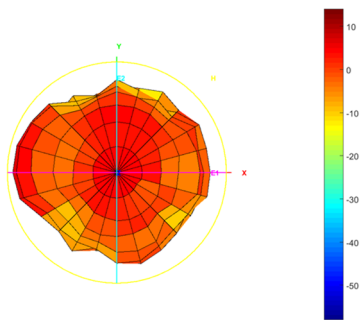
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.63

Max Antenna 3D Radiation Pattern 5925-6425 MHz



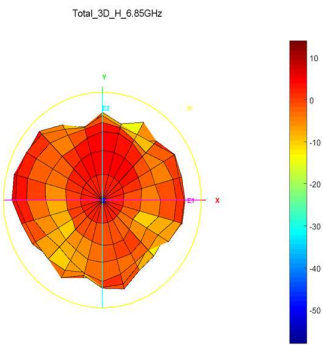
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.73

Max Antenna 3D Radiation Pattern 6425-6525 MHz



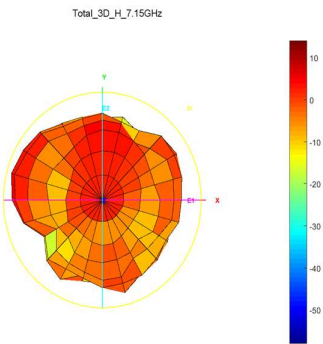
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.21

Max Antenna 3D Radiation Pattern 6525-6875 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.56

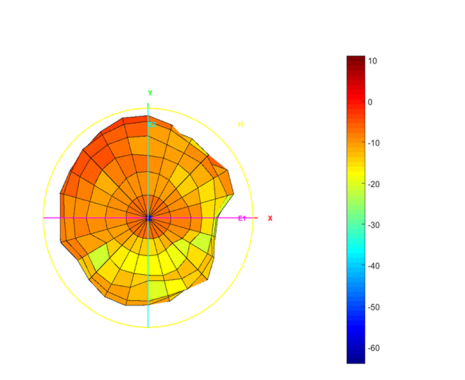
Max Antenna 3D Radiation Pattern 6875-7125 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	4.05

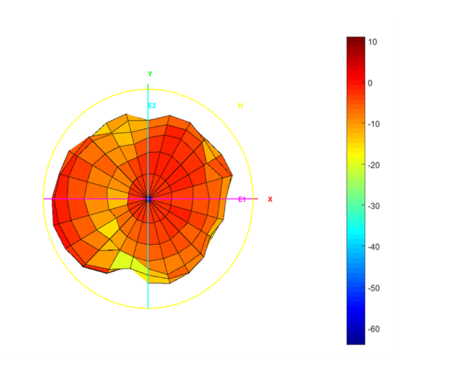
Auxiliary Antenna

Max Antenna 3D Radiation Pattern 2400-2483.5 MHz



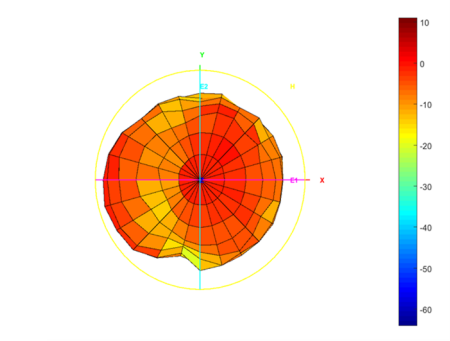
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	0.47

Max Antenna 3D Radiation Pattern 5150-5250 MHz



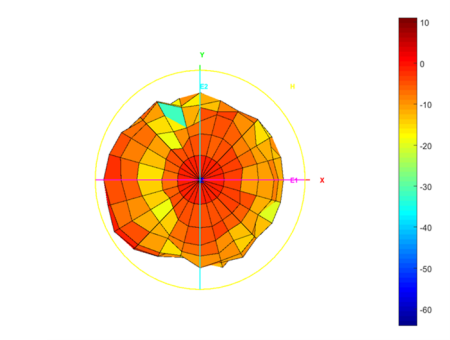
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.38

Max Antenna 3D Radiation Pattern 5250-5350 MHz



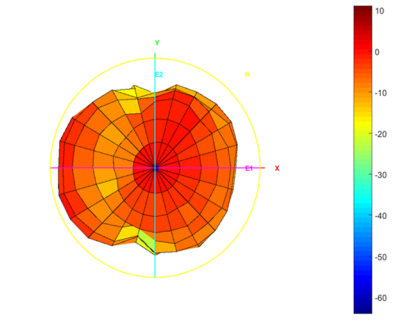
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.38

Max Antenna 3D Radiation Pattern 5470-5725 MHz



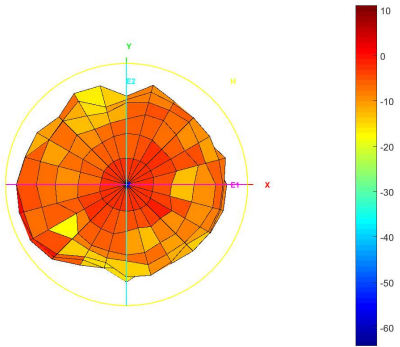
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.98

Max Antenna 3D Radiation Pattern 5725-5850 MHz



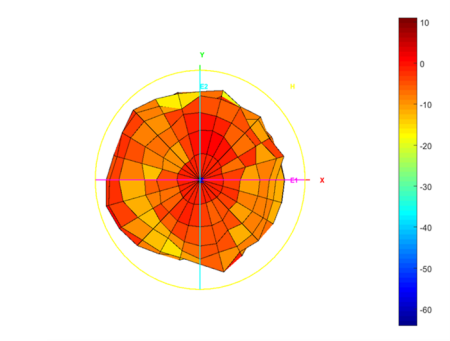
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.70

Max Antenna 3D Radiation Pattern 5850-5895 MHz



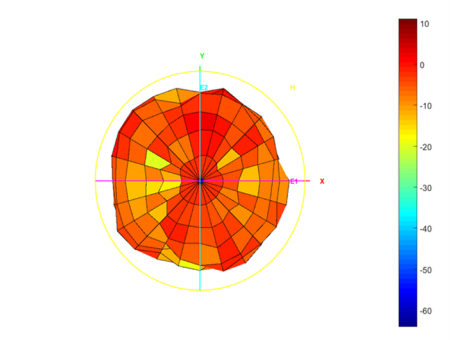
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.06

Max Antenna 3D Radiation Pattern 5925-6425 MHz



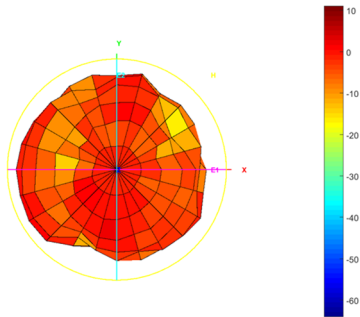
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.16

Max Antenna 3D Radiation Pattern 6425-6525 MHz



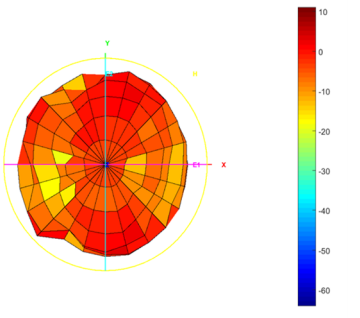
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.28

Max Antenna 3D Radiation Pattern 6525-6875 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.57

Max Antenna 3D Radiation Pattern 6875-7125 MHz



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.78