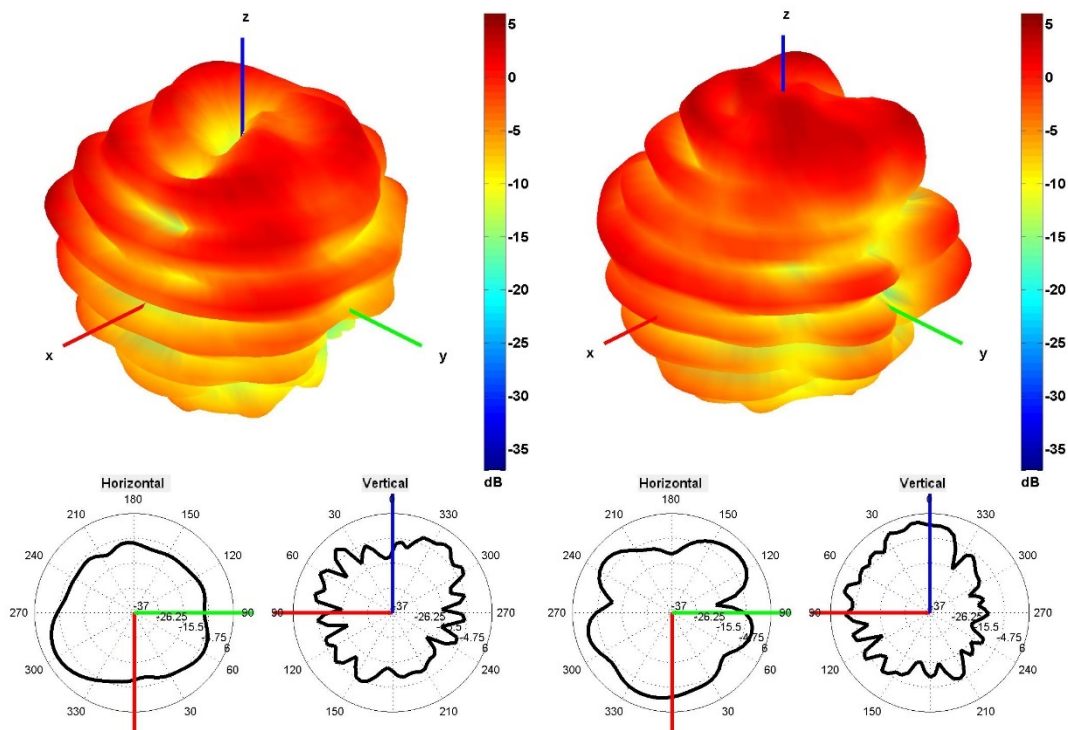
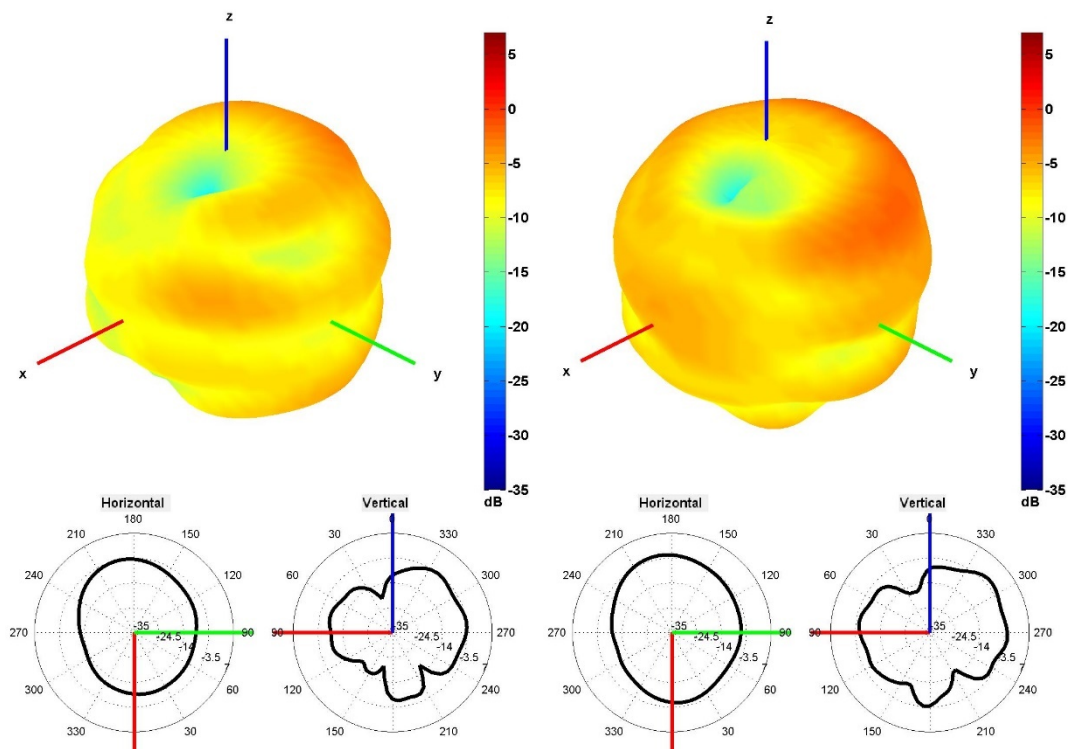


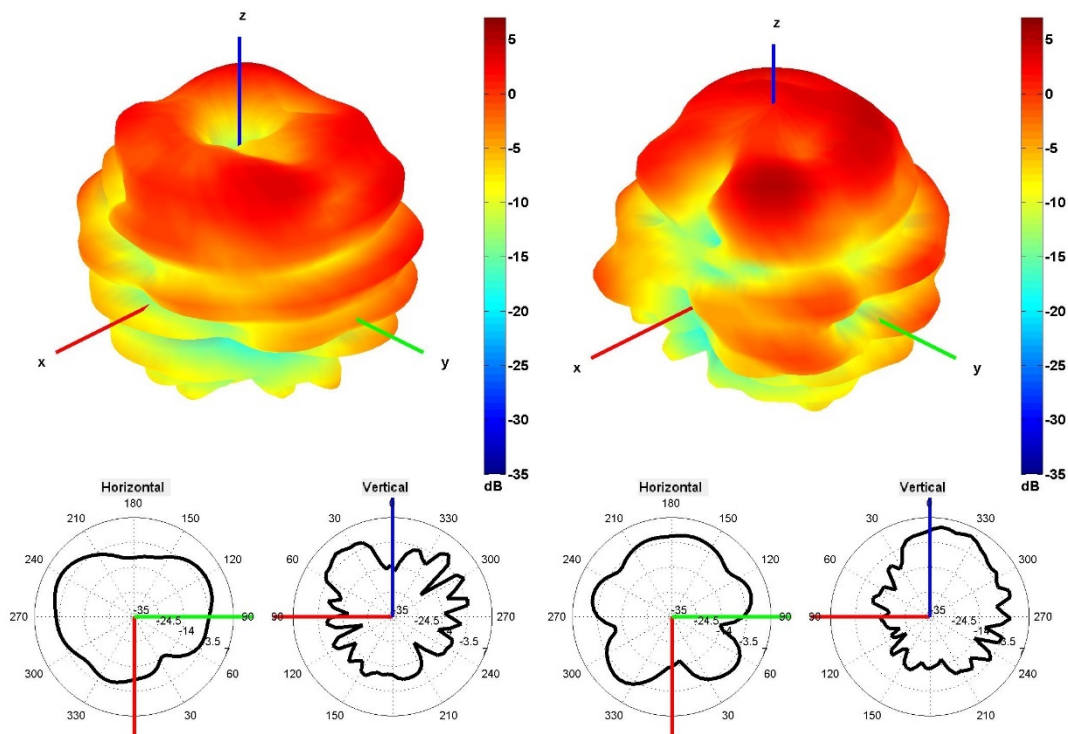


4500 AND 5500 MHz Radiation Patterns

5G-4



750 AND 2500 MHz Radiation Patterns

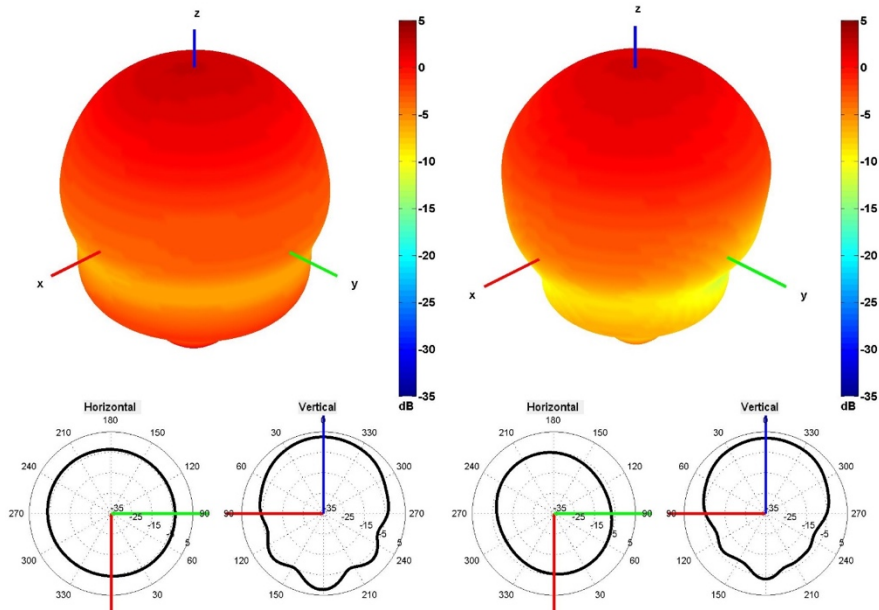
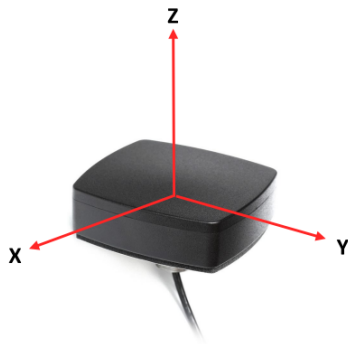


4500 AND 5500 MHz Radiation Patterns

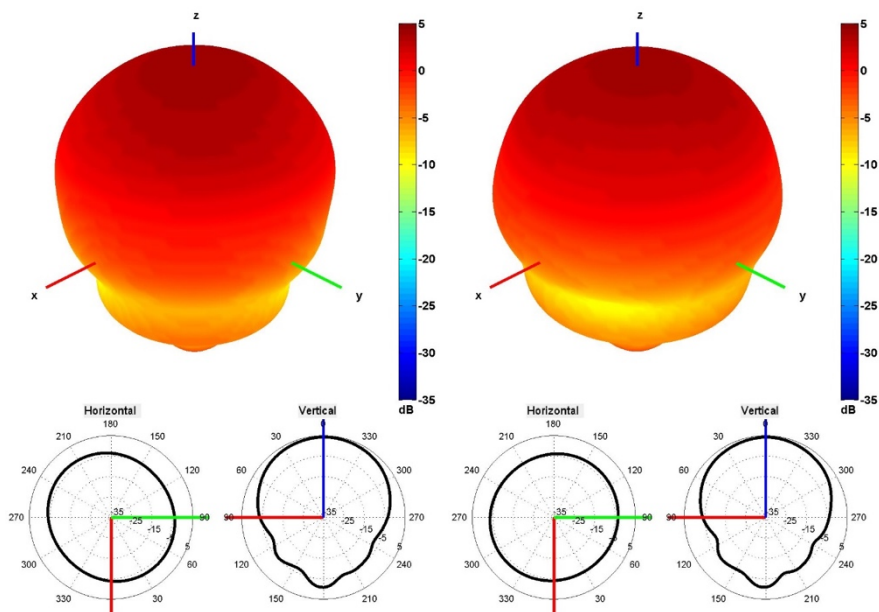
Antenna Test Results MEA-1400-SM

Product description: L1/L5 Active External Screw Mount Antenna, 3M LL100, SMA Male, 80 × 74 × 25.6 mm

Parameters	GNSS Active Antenna	
Technologies	GPS/Glonass/Beidou/QZSS/Galileo/IRNSS/SBAS/L1L2L5L6	
Bandwidth (MHz)	1176	1561-1606
Bands	L5	L1
Frequency (MHz)	1176.45	1561.09, 1575.42, 1602.00
Standards	GPS(L5), BeiDou(B2a, QZSS(L5), Galileo(E5a), IRNSS(L5)	GPS(L1C), GLONAS(L1OF), BeiDou(B1) QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~-12.8	~-12.6
VSWR	~1.8:1	~1.6:1
Efficiency (%)	~60.6	~68.6
Peak Gain (dBi)	~3.1	~4.2
Average Gain (dB)	~-1.8	~-1.5
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Axial Ratio (dB)	3dB max	
Polarization	RHCP	
Voltage Range (V)	2.3 – 6	
Active Gain (dB)	28 @ 3V	
Noise Figure (dB)	1.6 @ 3V	
Current Consumption (mA)	16 @ 3V	
Power Consumption (mW)	48 @ 3V	
Saw Filter Type	Pre-Filter	
Out of Band Rejection (dB)	~40	
ESD Protection (kV)	2	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	LL100 Standard (Other Cables Available)	



1176 AND 1561 MHz RADIATION PATTERN



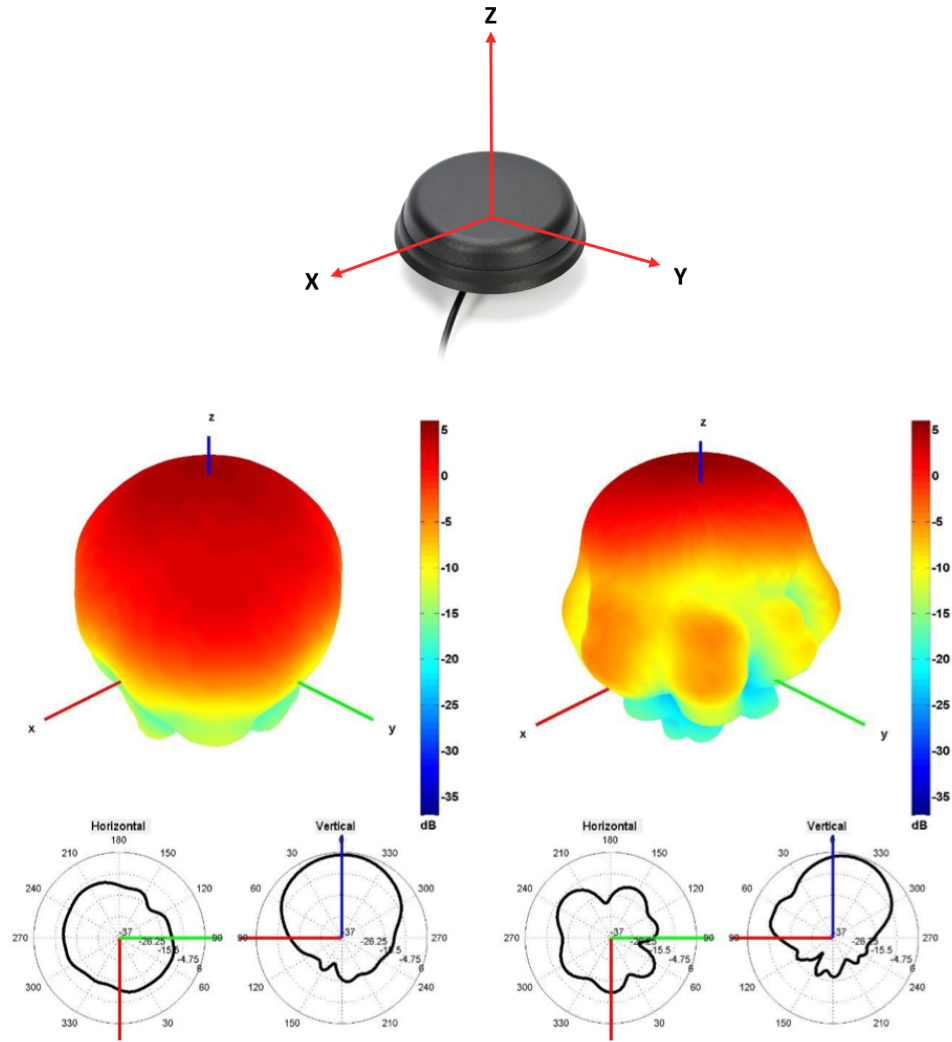
1575 AND 1602 MHz RADIATION PATTERN

Antenna Test Results MEA-2400-5925-SM-1M

Product description: 2.4/5.0 External Screw Mount Antenna, D302 1M, RP SMA Male, Ø 77.3 × 15 mm

Frequency(MHz)	Efficiency	Gain	Frequency(MHz)	Efficiency	Gain
2410	62%	5.91	5300	48%	5.95
2420	59%	5.60	5350	41%	5.97
2430	56%	5.38	5400	45%	5.97
2440	55%	5.40	5450	38%	5.95
2450	53%	5.37	5500	43%	5.97
2460	53%	5.38	5550	36%	5.81
2470	54%	5.29	5600	38%	5.95
2480	54%	5.17	5650	36%	5.93
2490	54%	5.08	5700	31%	5.33
4920	55%	5.35	5750	35%	5.63
4950	55%	5.23	5800	26%	4.43
5000	50%	5.50	5850	37%	5.82
5050	50%	5.46	5900	27%	4.38
5100	48%	5.82	5925	28%	4.49
5150	49%	5.90	5950	32%	4.84
5200	48%	5.92	6000	28%	4.40
5250	48%	5.94			

MEA-2400-5925-SM-1M Radiation Pattern



2450 and 5500 MHz Radiation pattern