



Shure SLXD1+

**Measurements of Shure SLXD1+
Body Pack Microphone
For Regulatory Approval
G57-variant (470.125 – 551.850 MHz & 552.150-607.875)**

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1. SLXD1+ – Body Pack Transmitter

1.1 SLXD1+ – UHF antenna for 470.125 - 551.850 & 552.150 – 607.875 MHz

Antenna 3D patterns for:

- Test frequency = 470.125 MHz
- Maximum gain = -1.8 dBi

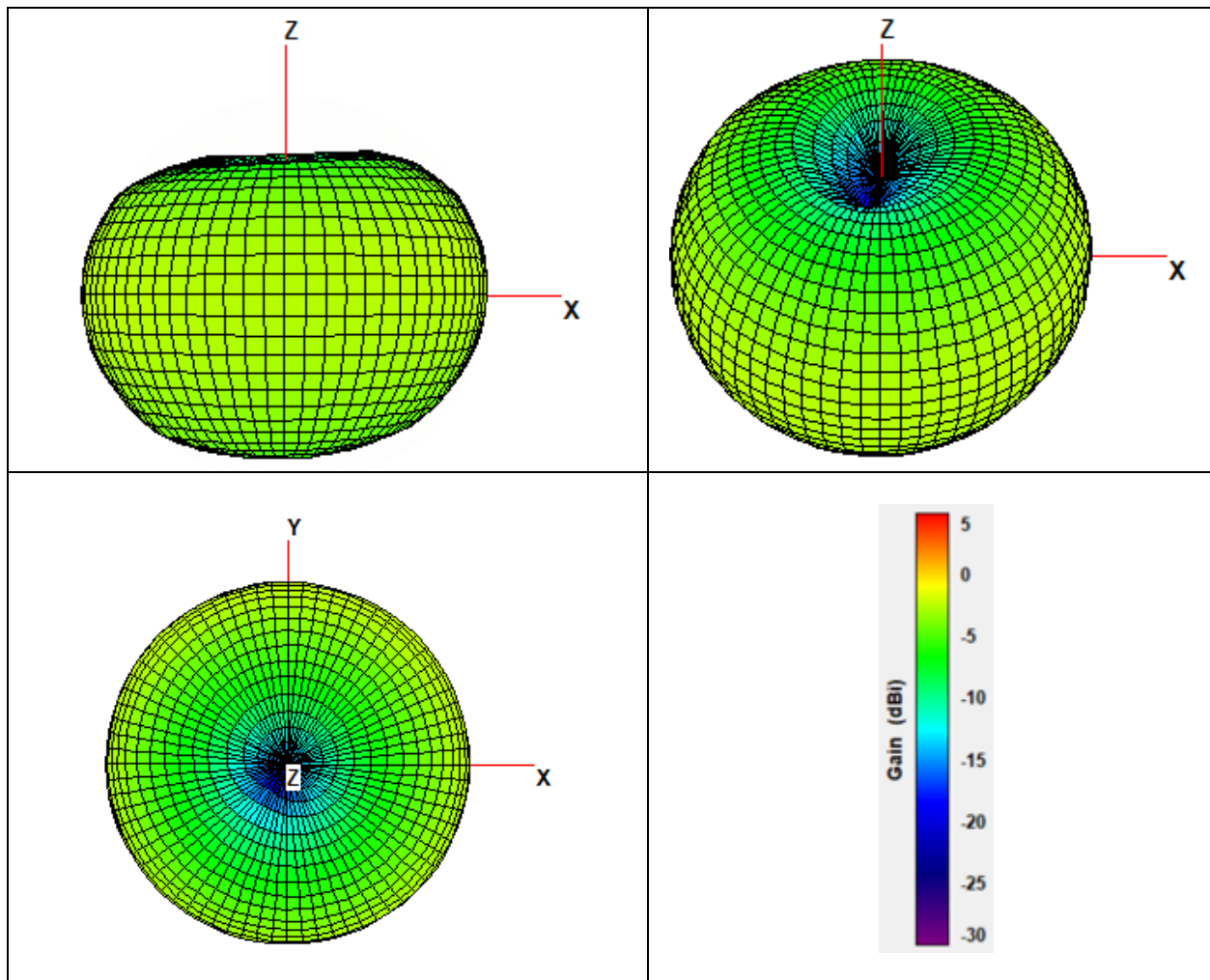


Figure 1 – SLXD1+ G57-variant (470.125 MHz) 3D radiation patterns and scale

- Test frequency = 510.000 MHz
- Maximum gain = -0.7 dBi

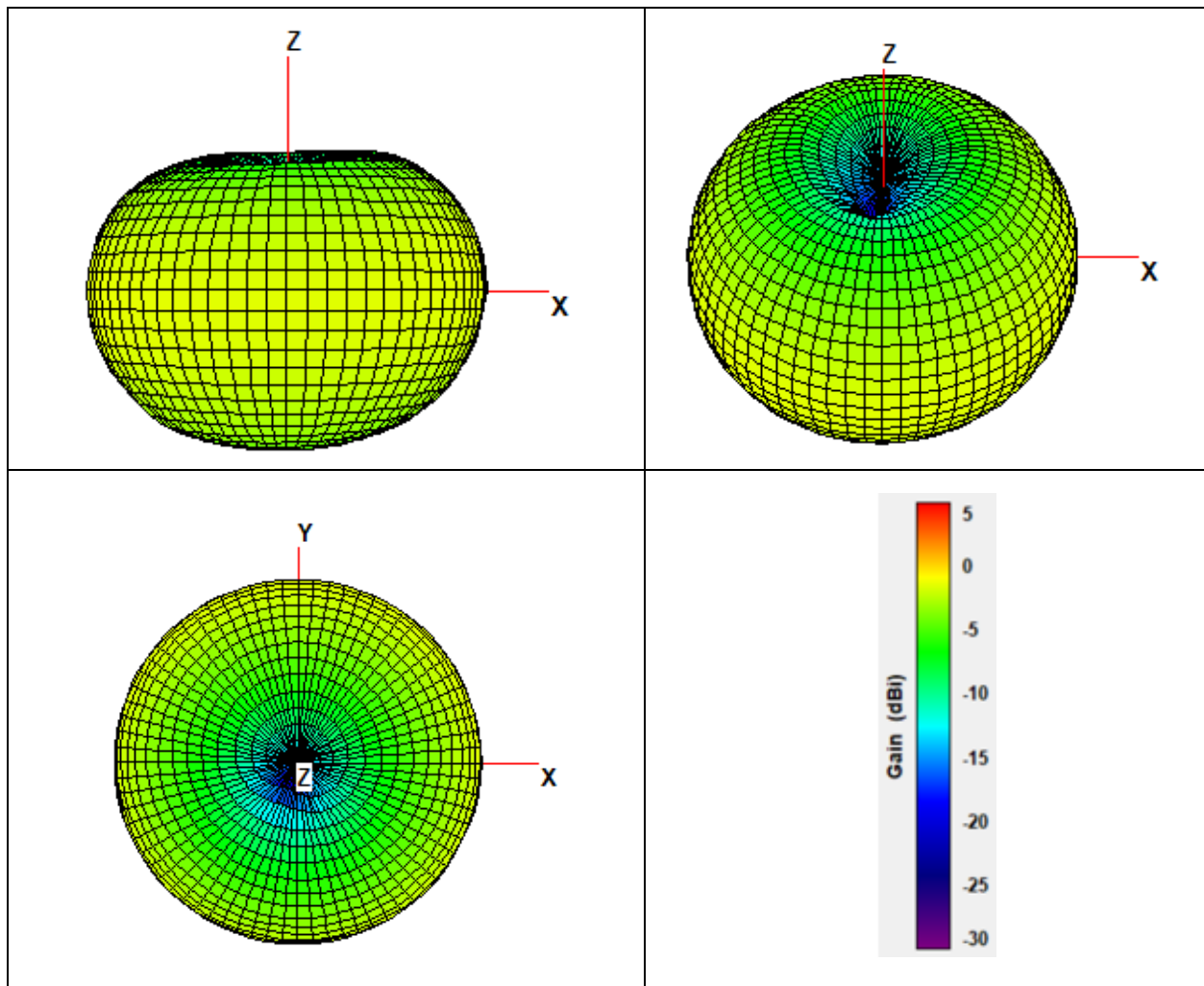


Figure 2 – SLXD1+ G57-variant (510.000 MHz) 3D radiation patterns and scale

- Test frequency = 551.850 MHz
- Maximum gain = 1.5dBi

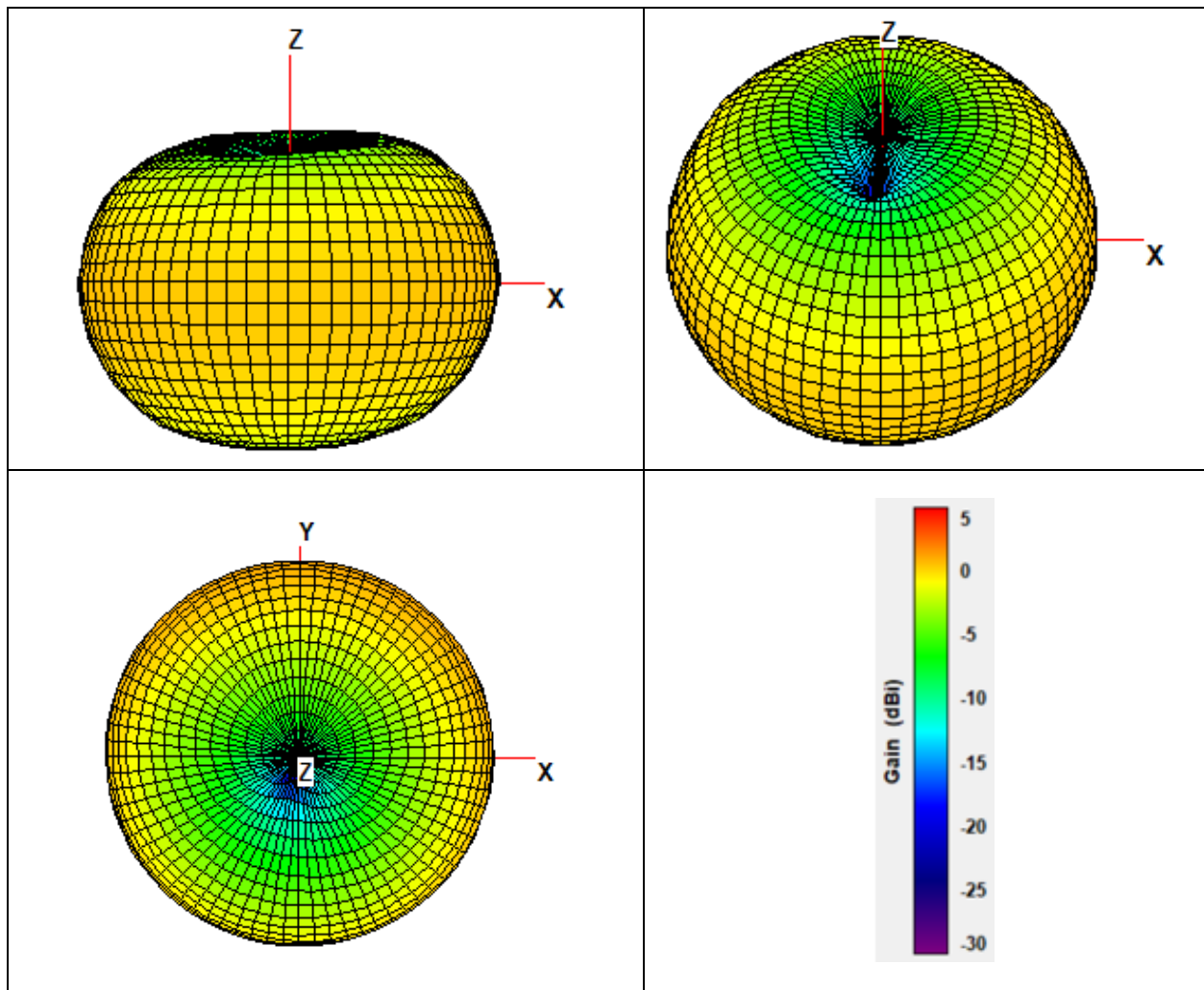


Figure 3 – SLXD1+ G57-variant (551.850 MHz) 3D radiation patterns and scale

- Test frequency = 552.150MHz
- Maximum gain = 1.5 dBi

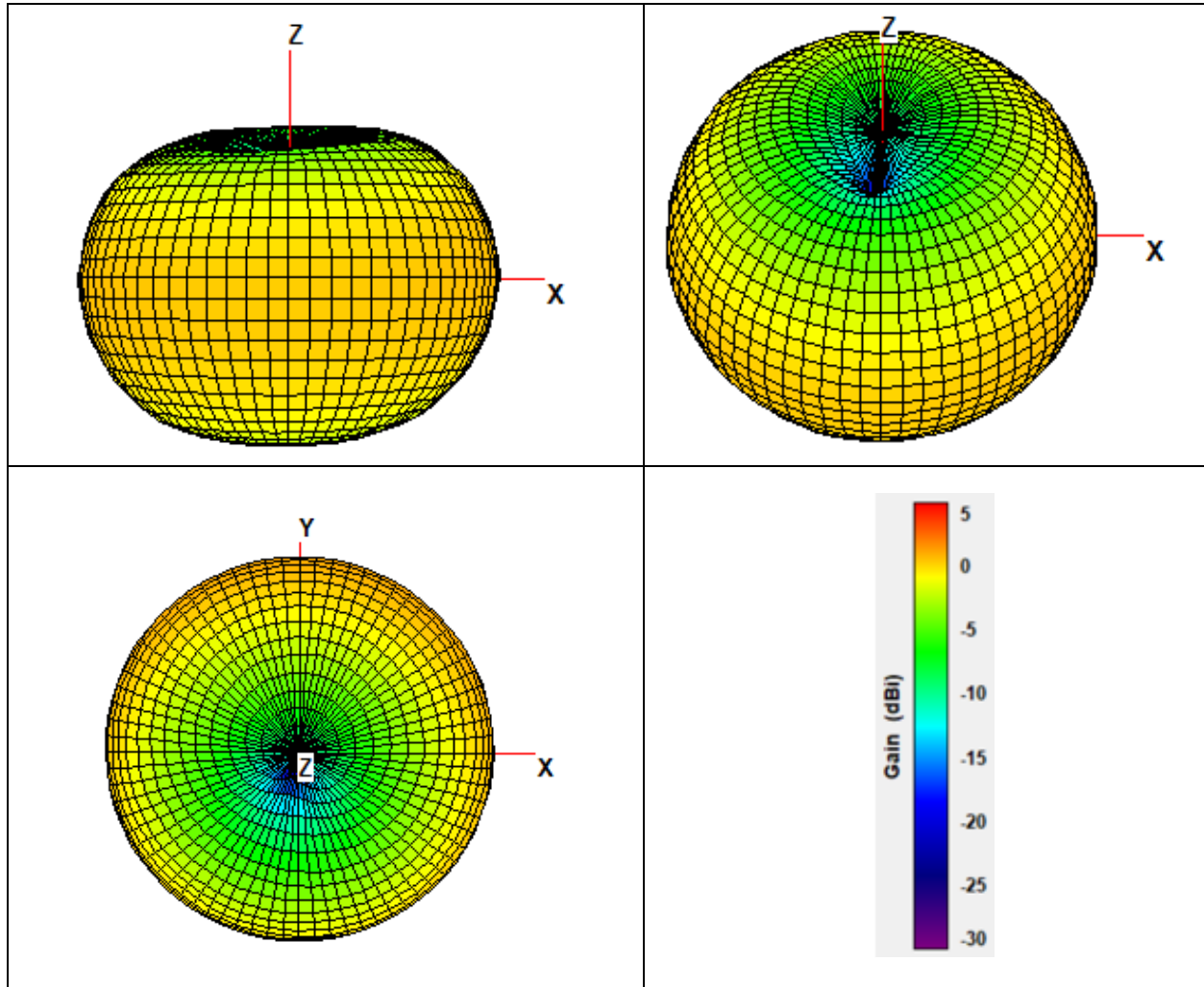


Figure 4 – SLXD1+ G57-variant (552.150 MHz) 3D radiation patterns and scale

- Test frequency = 580.000 MHz
- Maximum gain = 0.6 dBi

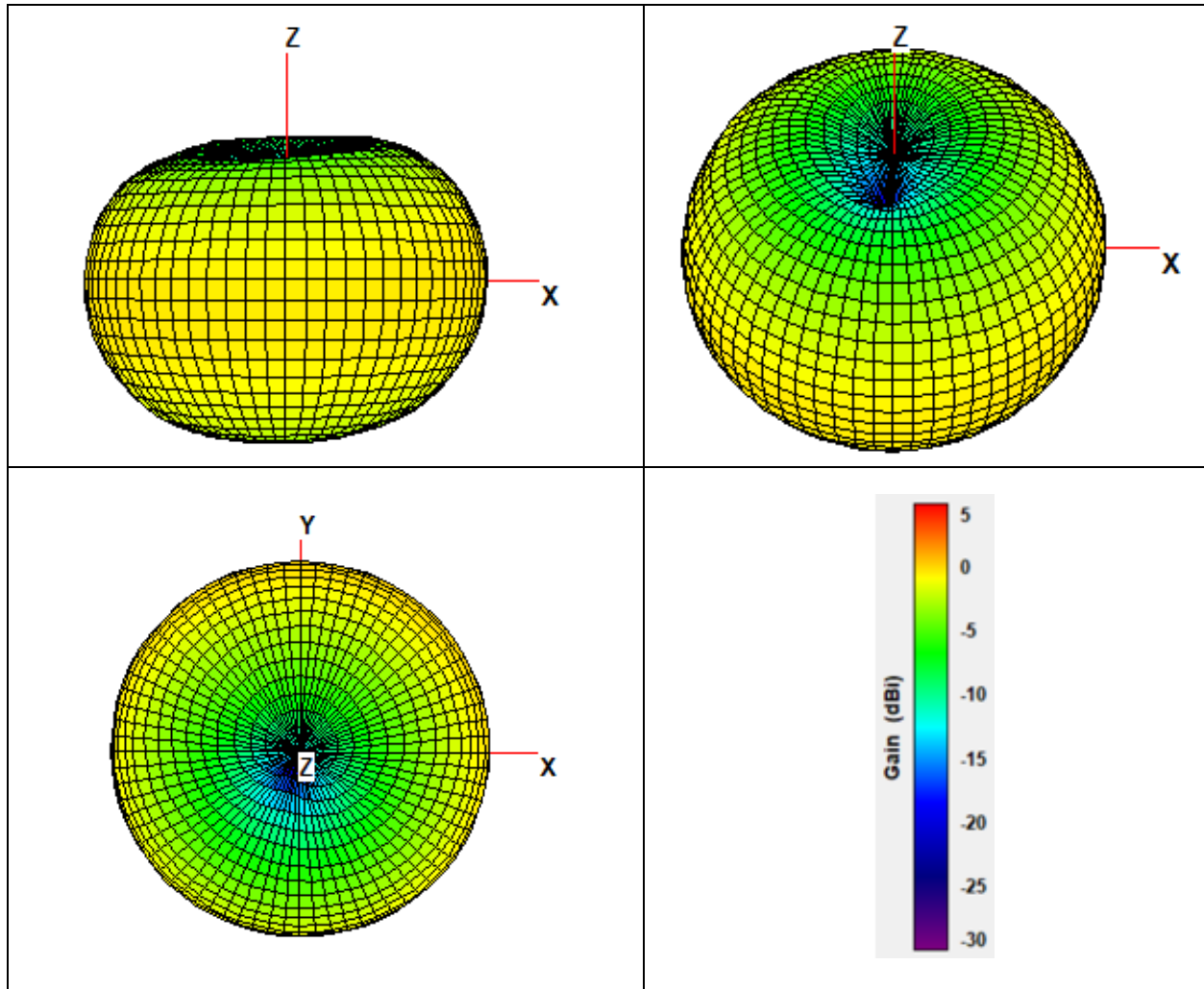


Figure 5 – SLXD1+ G57-variant (580.000 MHz) 3D radiation patterns and scale

- Test frequency = 607.875 MHz
- Maximum gain = 0.3 dBi

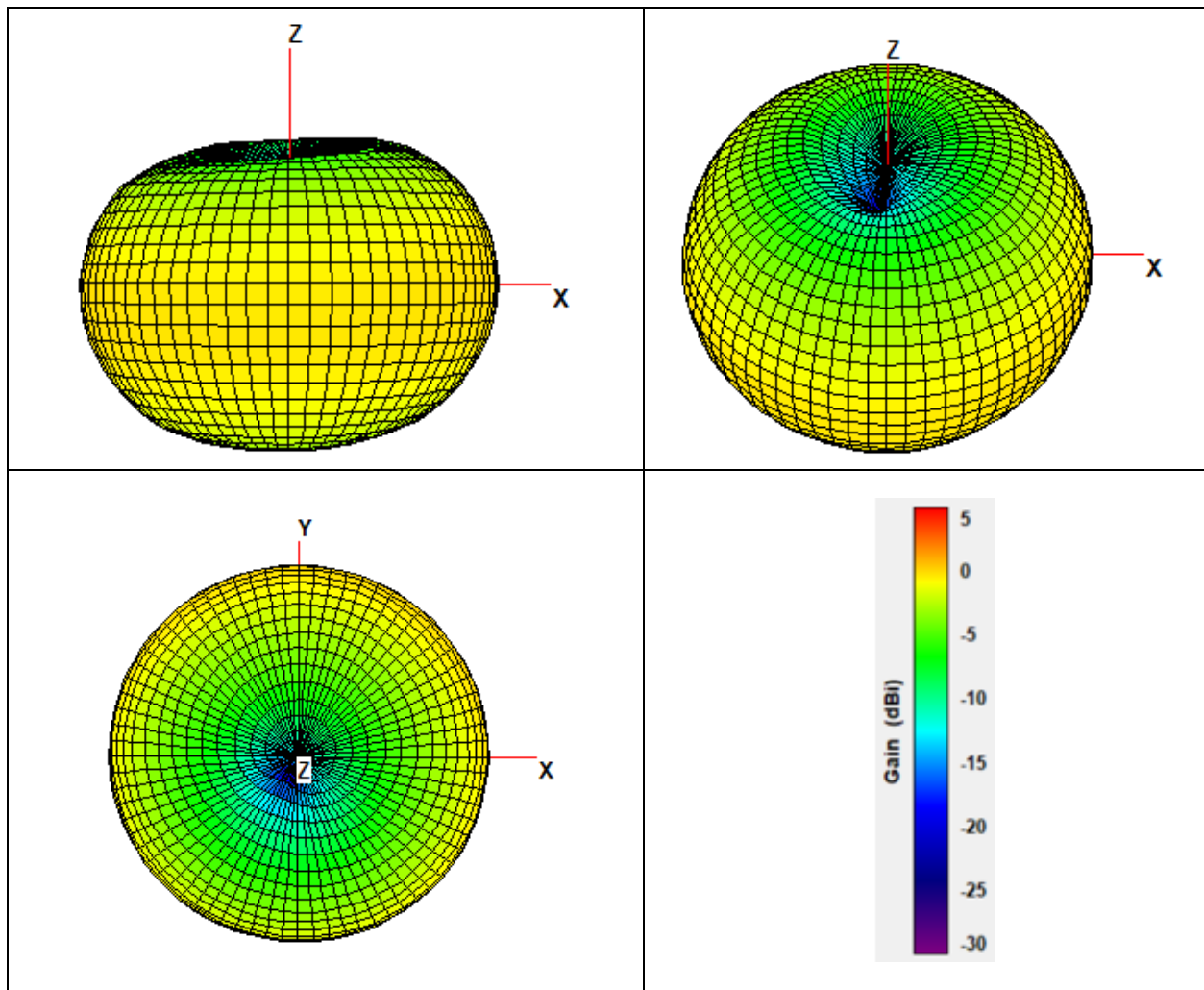


Figure 6 – SLXD1+ G57-variant (607.875 MHz) 3D radiation patterns and scale

2. Appendix

2.1 Supporting Test Equipment List

- E5071C ENA series Vector Network Analyzer 100kHz-8.5GHz
- ets model 2090 multi device controller
- ets lindgren model 3164-10 3164-10 Open Boundary Quad-Ridged Horn 400MHz-10GHz
- ets lindgren model no 3126-1920 precision sleeve dipole 1728-2112MHz
- EMQuest Data Acquisition and Analysis Software v1.12

2.2 Antenna Chamber Diagram and Reference Angles and DUT Pictures

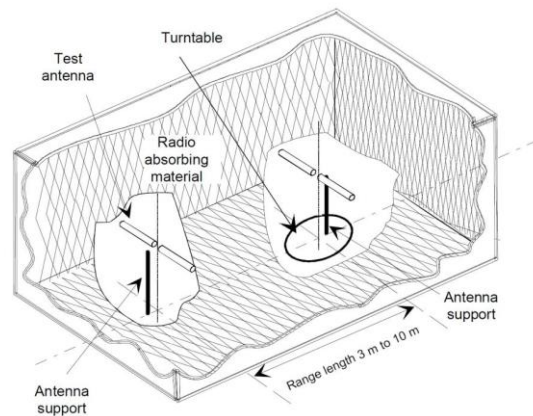


Figure 7– Diagram of Shure antenna chamber. Designed per ETSI EN 300 422-1, section D-1

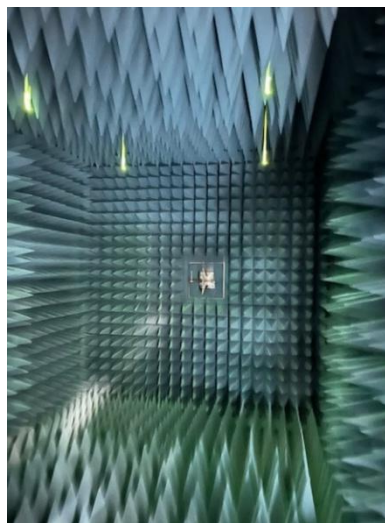


Figure 8 – Photo of Shure Antenna Test Chamber.

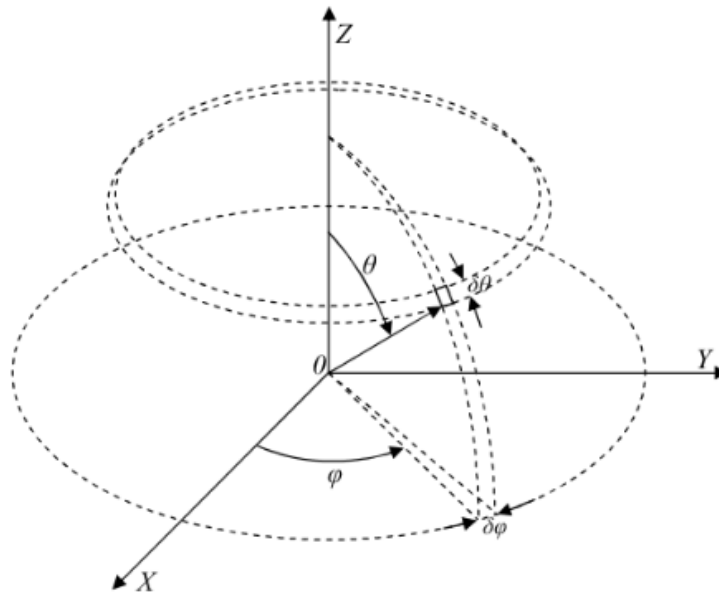


Figure 9 – Antenna Reference Angle

SLXD1+ Dipole Antenna Structure

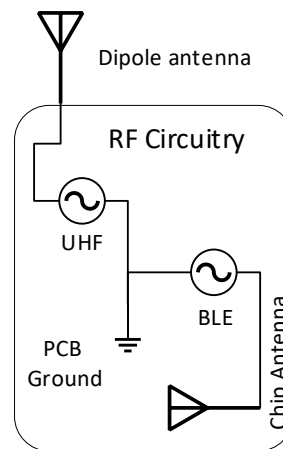
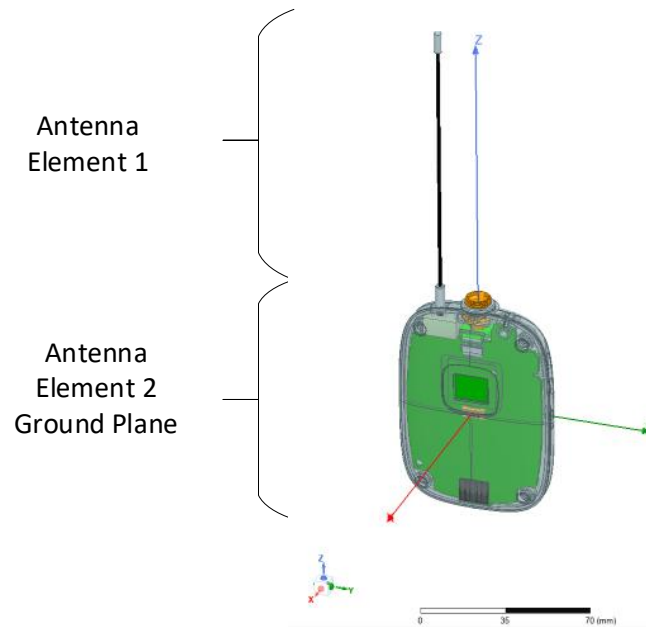


Figure 10 – SLXD1+ UHF Dipole Antenna and BLE Chip Antenna RF Connection Block Diagram