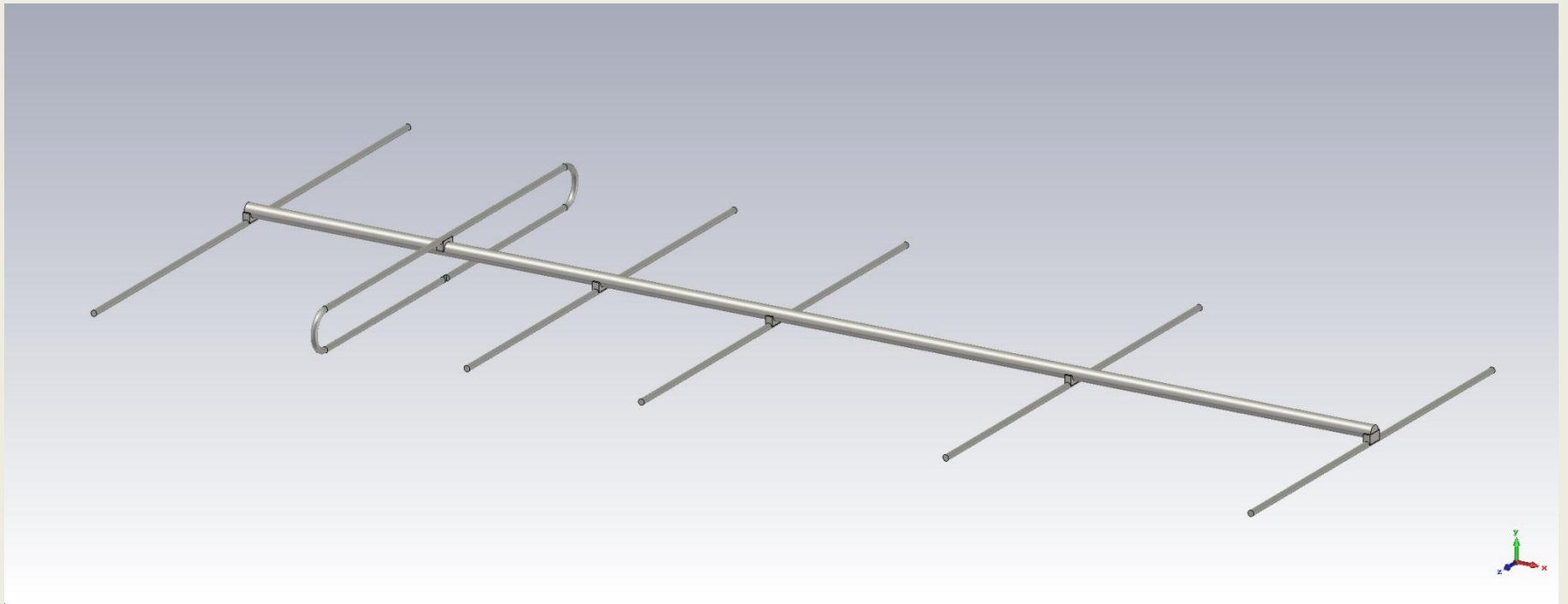


FM 6-element Yagi antenna

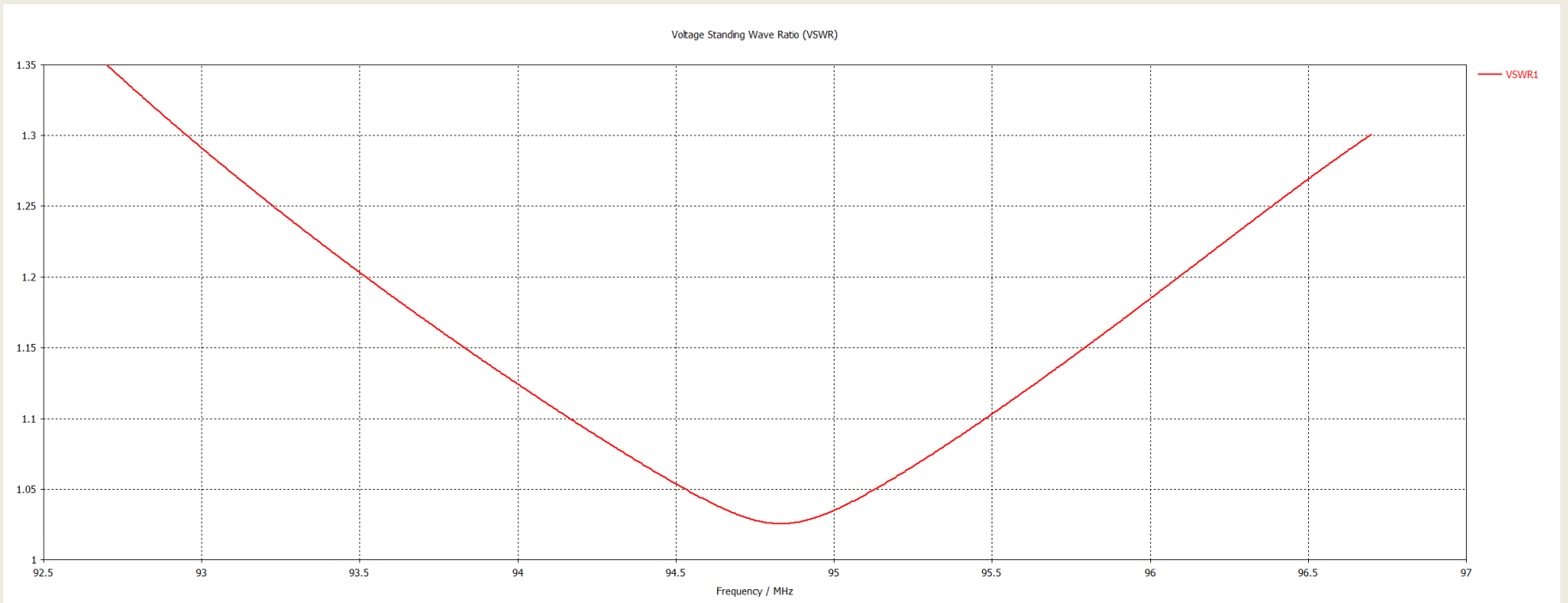
A customer had lost the boom tube
and needed element placement
information

Job scenario

- What we had:
 - Elements (all element dimensions, incl. element clamps)
 - Center frequency
 - VSWR bandwidth
 - Antenna gain & F/B ratio
- What was needed:
 - Element placement data (positions)
 - Antenna performance data
- What we did:
 - Full 3D EM simulation (CST) of the antenna with reasonable starting values for element placement
 - Coarse adjustment of element placement
 - Antenna performance optimisation with carefully defined antenna performance goals and strategic simulation model preparation



Valid for feedpoint impedance: 140 Ohms (antenna internal transformation ratio unknown)



Horizontal (azimuth) radiation pattern

