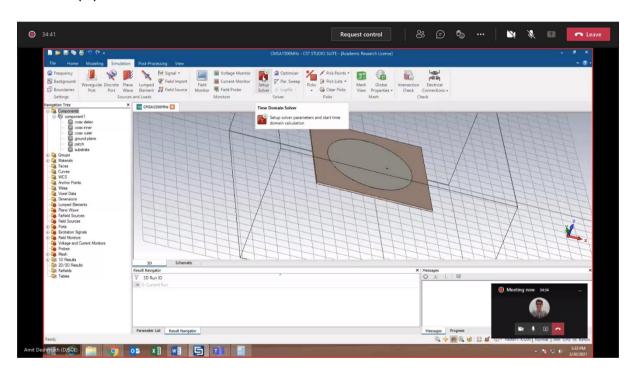
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EXPT No. 09 Date: 30/03/2021

AWP Experiment: CMSA design in CST Simulation software

Rajus Nagwekar 60002180080 TE EXTC 2

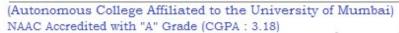
Frequency = 1.5Ghz Substrate = RT Duroit (epsilon = 2.33) H = 0.16Radius (a) = 3.727 cm



Top view of substrate

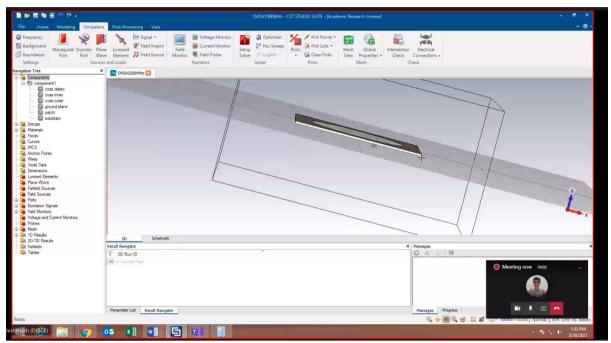


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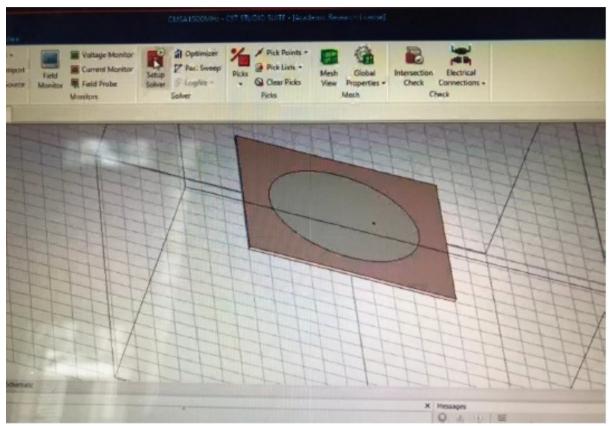
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Side view of substrate



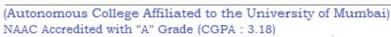
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Setup solver



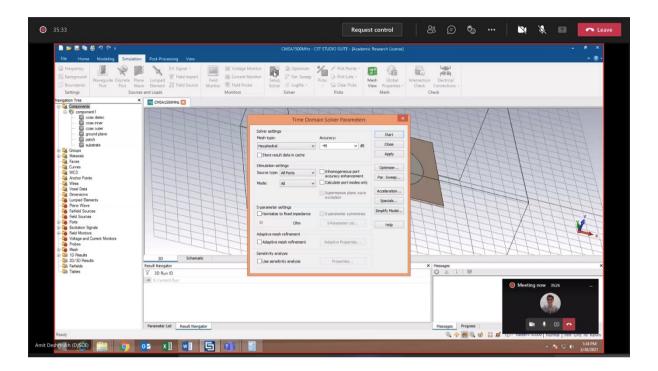
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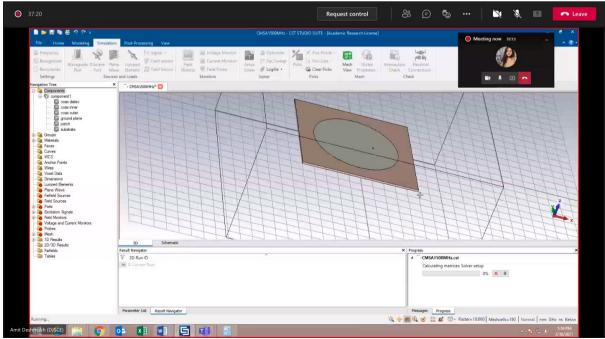


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Time domain solver parameters in setup solver



Simulation of antenna

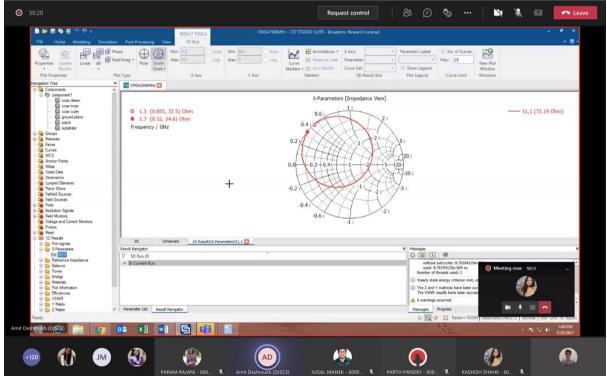


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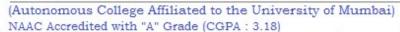
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S-parameters smith chart

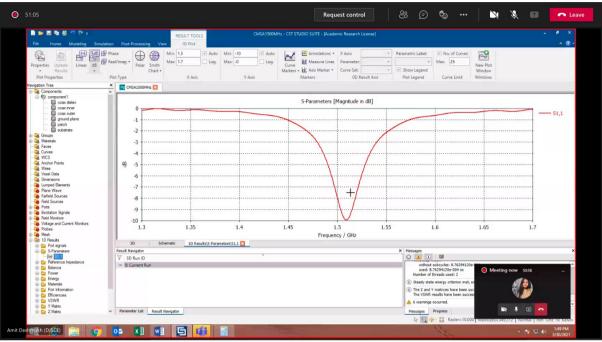


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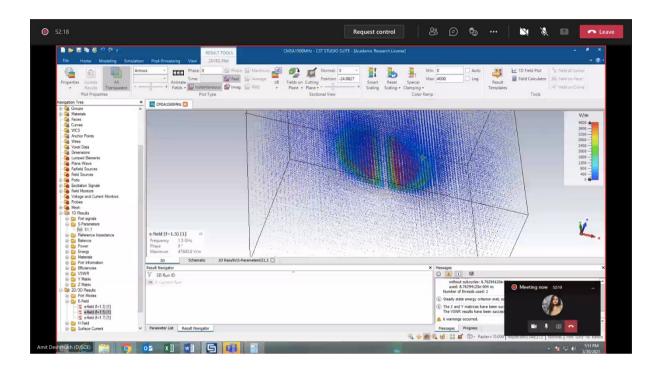
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S parameters return coefficient observed at 1.51 Ghz



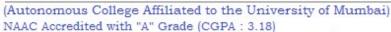
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Electric field distribution

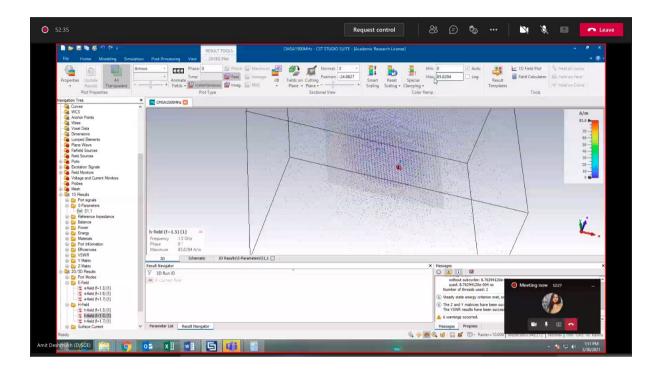


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Magnetic field distribution

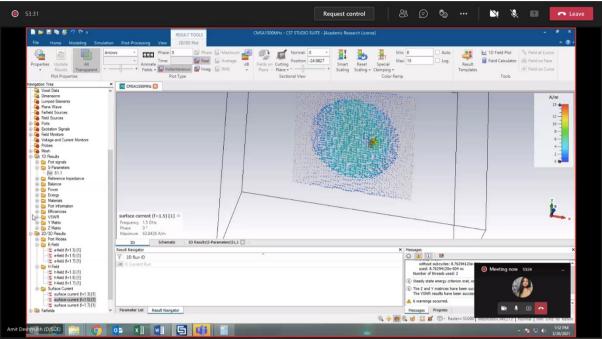


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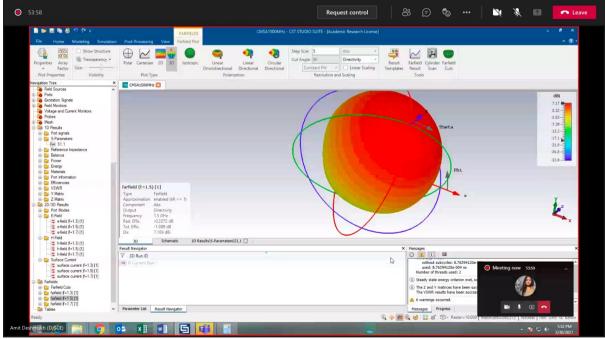


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Surface current density



Far field distribution

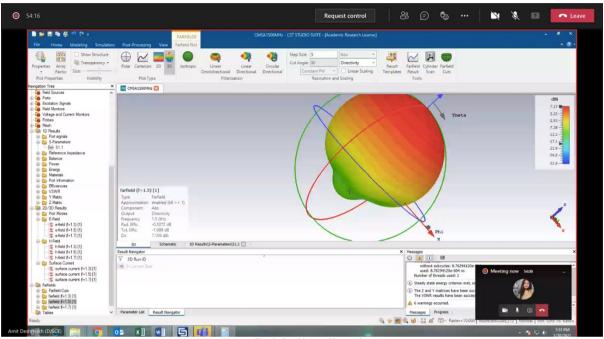


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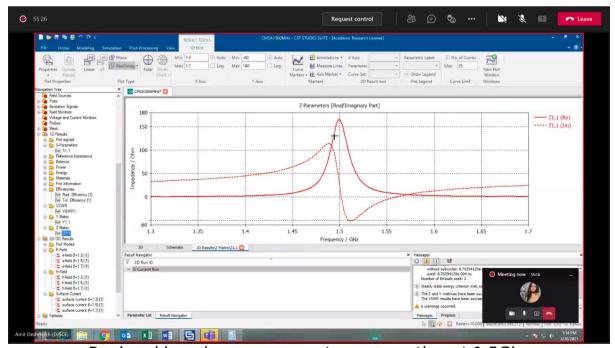


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Far field distribution



Real and imaginary z-parameters resonating at 1.5Ghz