(a) $f = 6$ GHz ($A = 4$ cm^2)

$r_{\mathrm{a}} = 5$ cm $r_{\mathrm{a}} = 7$ cm

$r_{\mathrm{a}} = 10$ cm $r_{\mathrm{a}} = 15$ cm

(b) $f = 26$ GHz ($A = 4$ cm^2)

$r_{\mathrm{a}} = 5$ cm $r_{\mathrm{a}} = 7$ cm

$r_{\mathrm{a}} = 10$ cm $r_{\mathrm{a}} = 15$ cm

(c) $f = 60$ GHz ($A = 1$ cm^2)

$r_{\mathrm{a}} = 5$ cm $r_{\mathrm{a}} = 7$ cm

$r_{\mathrm{a}} = 10$ cm $r_{\mathrm{a}} = 15$ cm

(d) $f = 90$ GHz ($A = 1$ cm^2)

$r_{\mathrm{a}} = 5$ cm $r_{\mathrm{a}} = 7$ cm

$r_{\mathrm{a}} = 10$ cm $r_{\mathrm{a}} = 15$ cm

sPD_{n} [W/m^2]

d [mm]

—○— spherical

--◇-- cylndrical