dc simulation

DC1

Parameter sweep

SW1
Sim=SP1
Type=lin
Param=Vds
Start=5
Stop=20
Points=6

S parameter simulation

SP1
Type=log
Start=1 kHz
Stop=10 GHz
Points=351

P1
Num=1
Z=50 Ohm
X1
V1
U=0

X2
V2
U=Vds

P2
Num=2
Z=50 Ohm

MESFET1
LEVEL=4
Vto=-1.8
Beta=3e-3
Alpha=2.25
Lambda=0.05
Qp=2.1
Delta=0.1
Vmax=0.5
Vdelta1=0.3
Vdelta2=0.2
Gamma=0.015
Nsc=1
Cgd=0.2e-12
Cgs=1e-12
Cds=1e-12
Ng=2.65
Nd=0
ILEVELS=3
ILEVELD=3
QLEVELS=3
QLEVELD=3
QLEVELDS=2
Rg=5.1
Rd=1.3
Rs=1.3