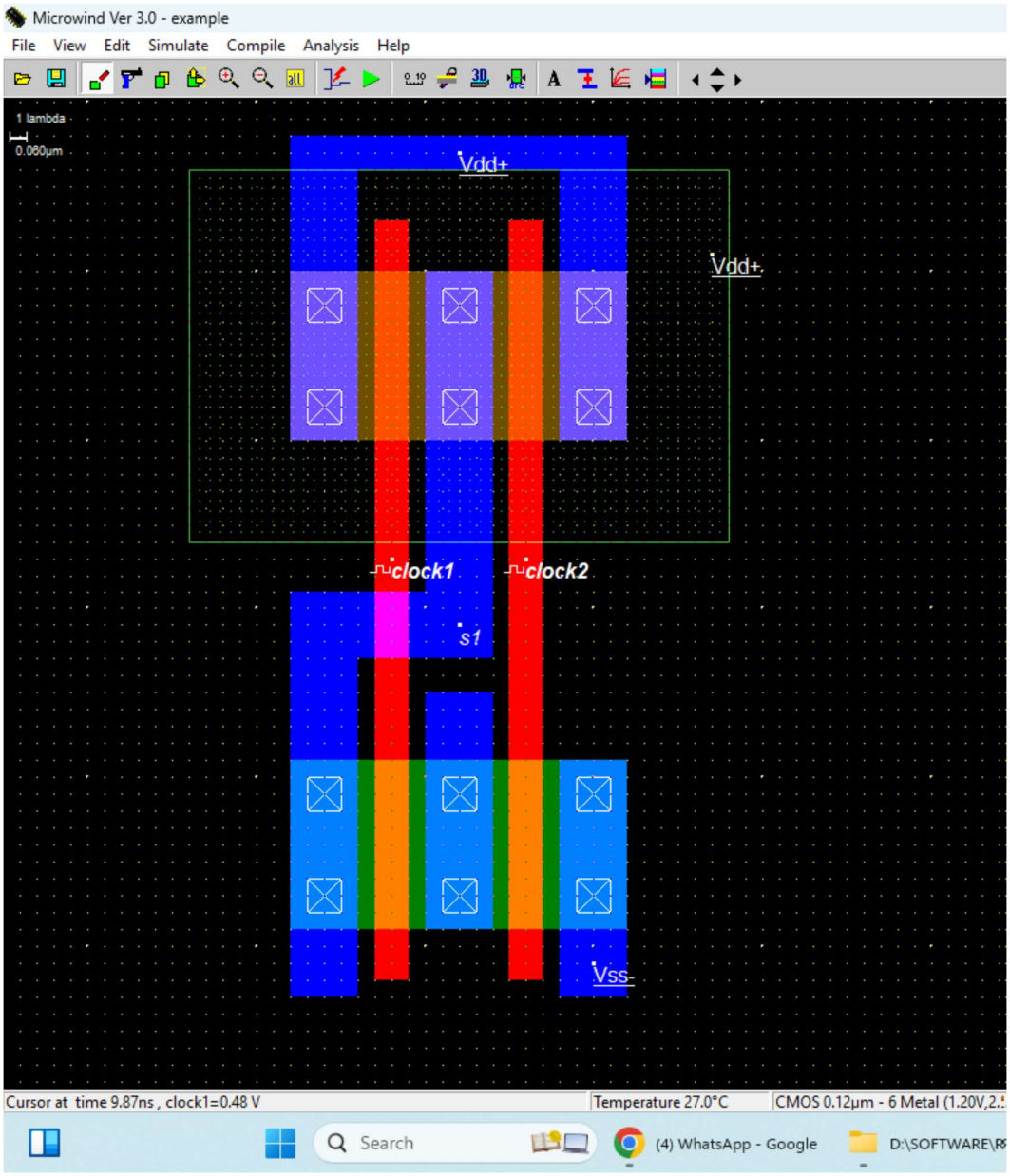
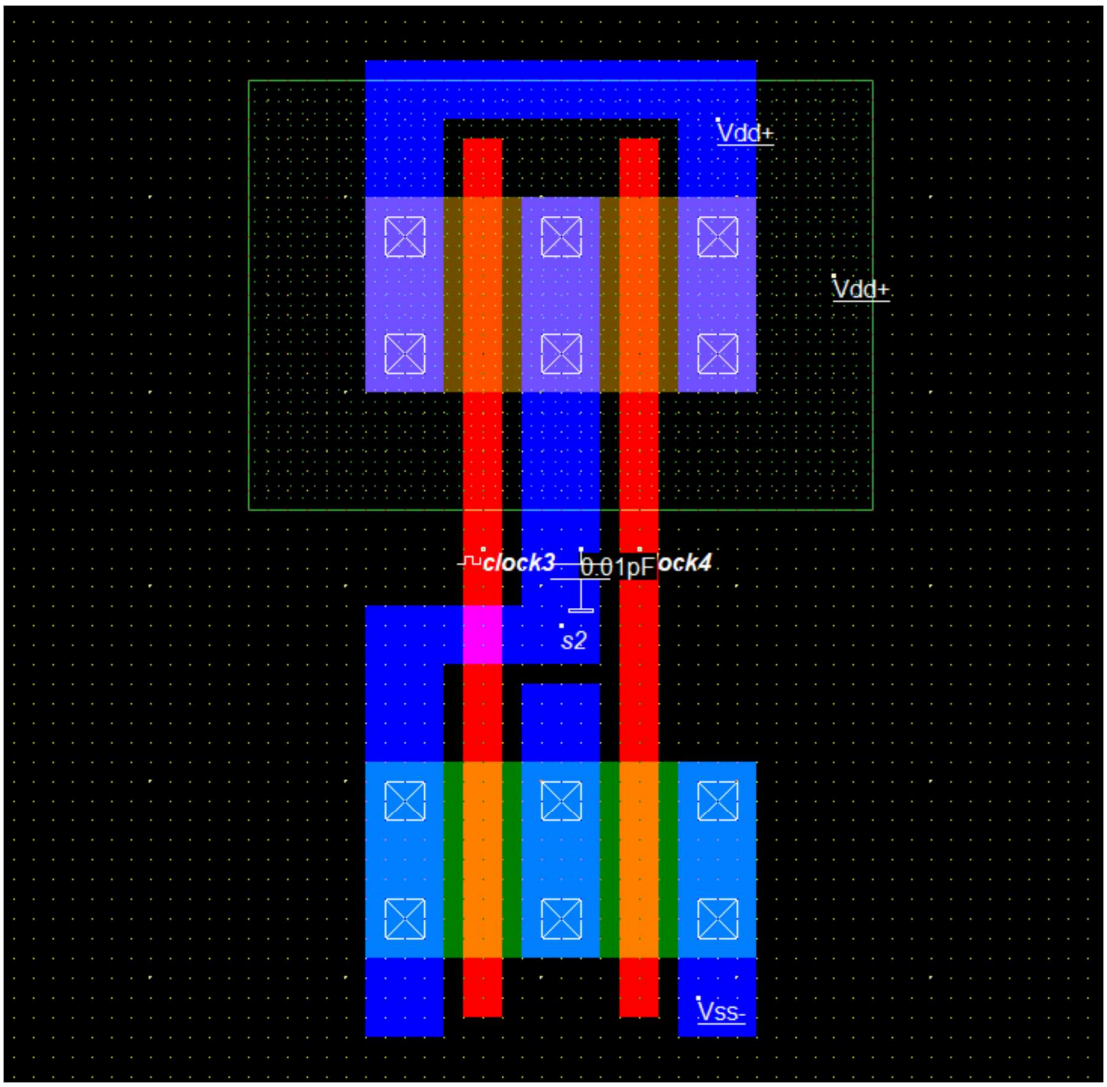
Experiment No: 6

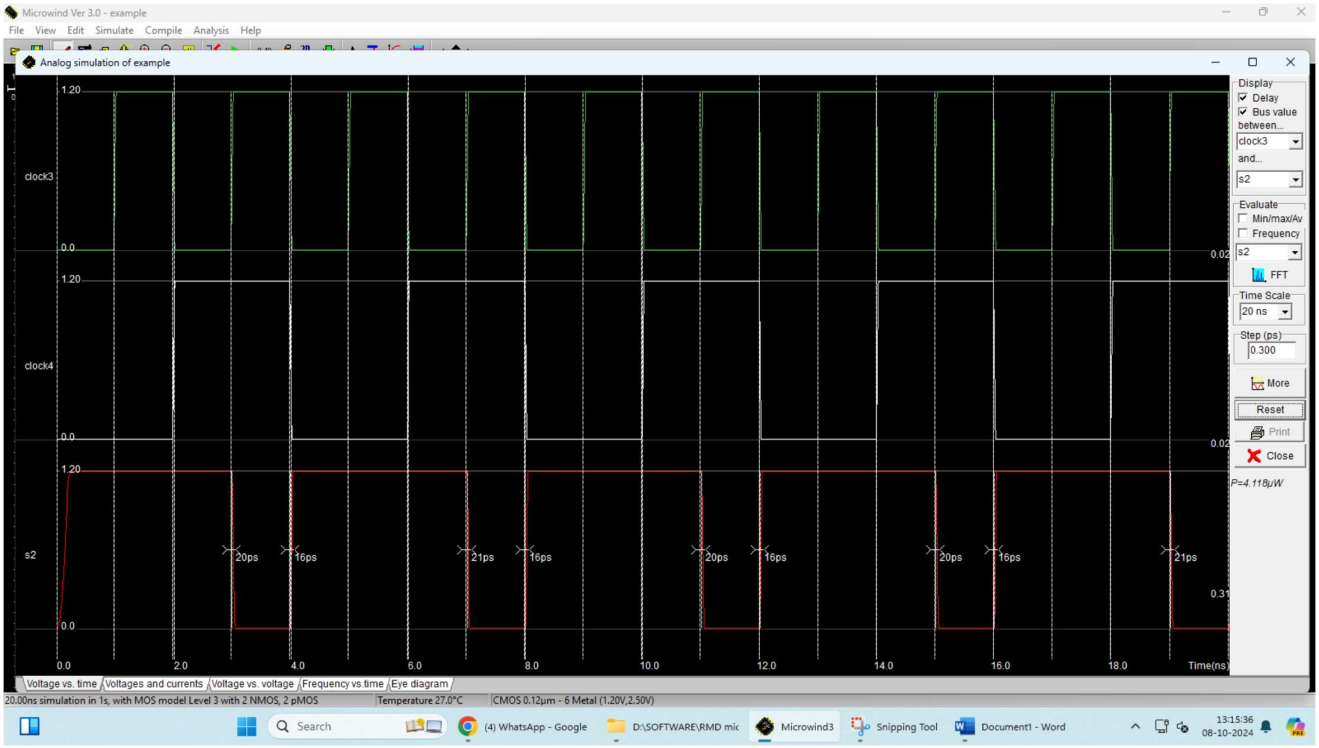
Name: Shubham Vilas Malve
Roll No.: E42067

NAND

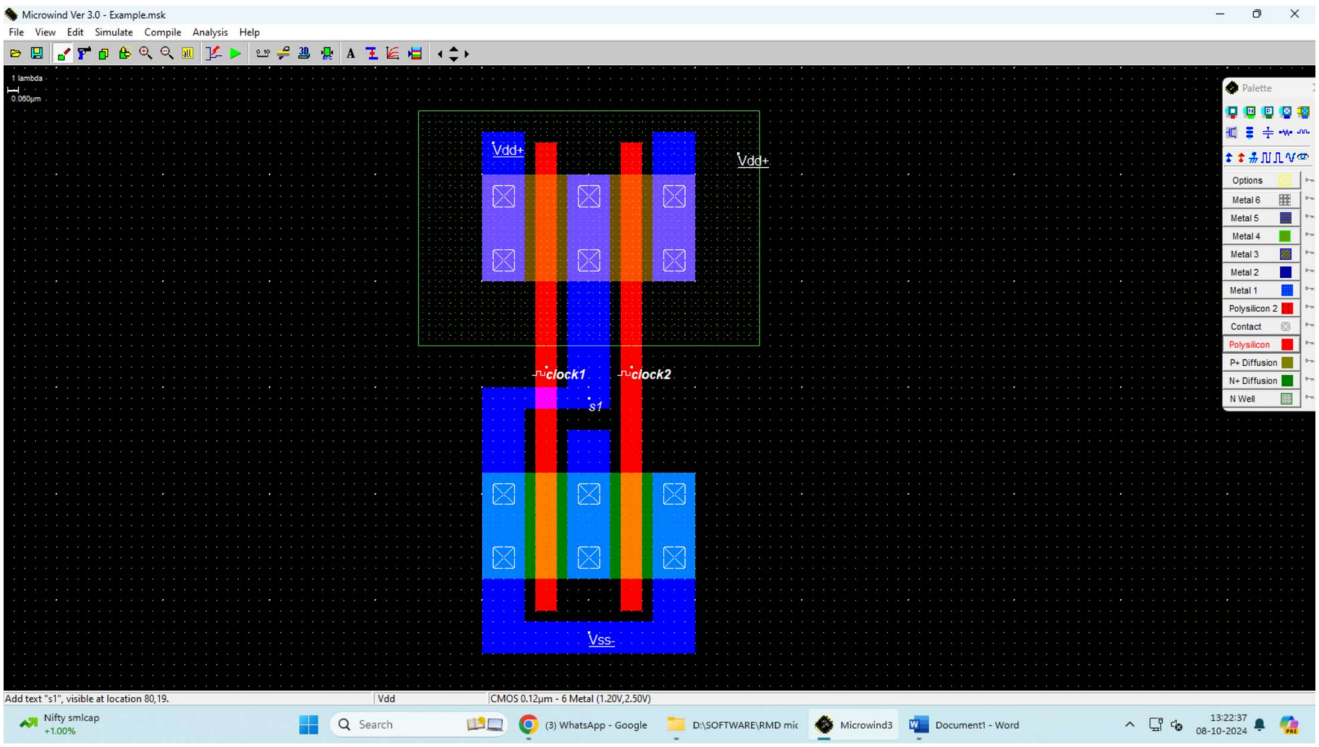


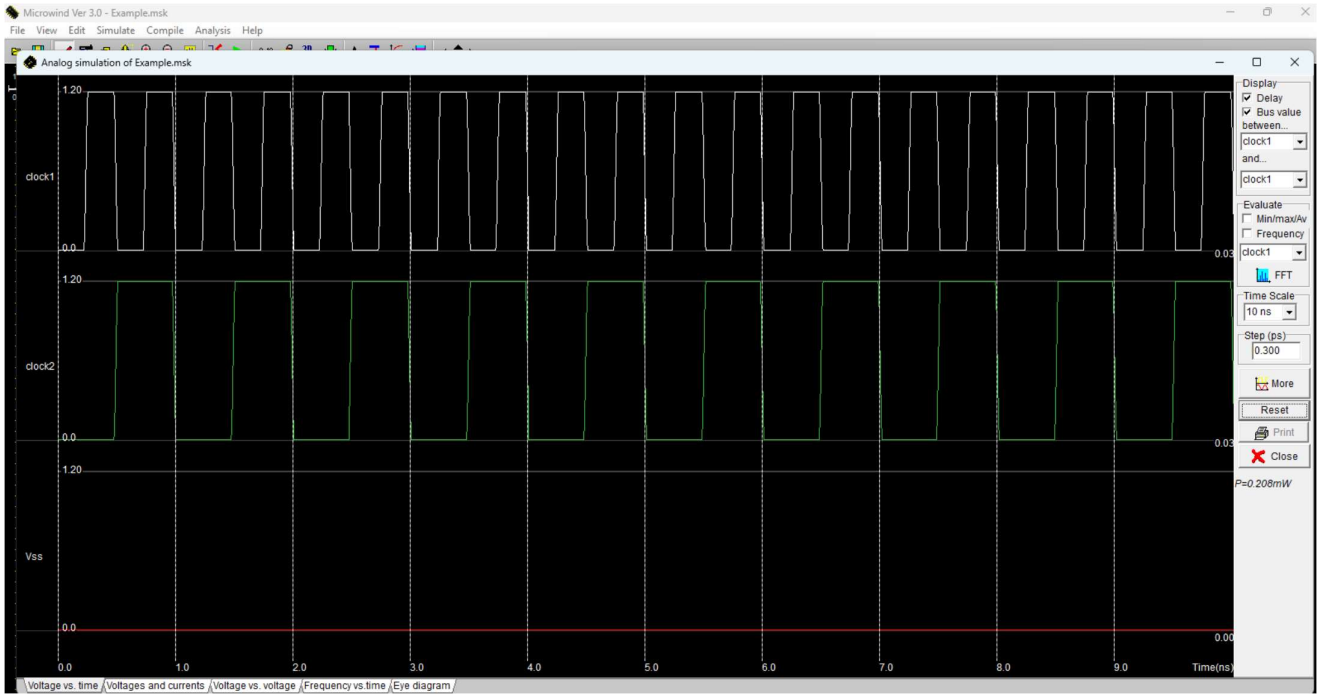
Microwind Ver 3.0 - example
File View Edit Simulate Compile Analysis Help
Analog simulation of example
clock1
clock2
s1
1.20
0.0
4ps
3ps
Time(ns)
Display
Delay
Bus value between...
clock1
and...
s1
Evaluate
Min/max/Av
Frequency
FFT
Time Scale
10 ns
Step (ps)
0.300
More
Reset
Print
Close
P=2.313µW
Voltage vs. time
Voltages and currents
Voltage vs. voltage
Frequency vs.time
Eye diagram
10.00ns simulation in 0s, with MOS model Level 3 with 2 NMOS, 2 pMOS
Temperature 27.0°C
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
Search
(4) WhatsApp - Google
D:\SOFTWARE\RMD mic
Microwind3
13:05:29
08-10-2024

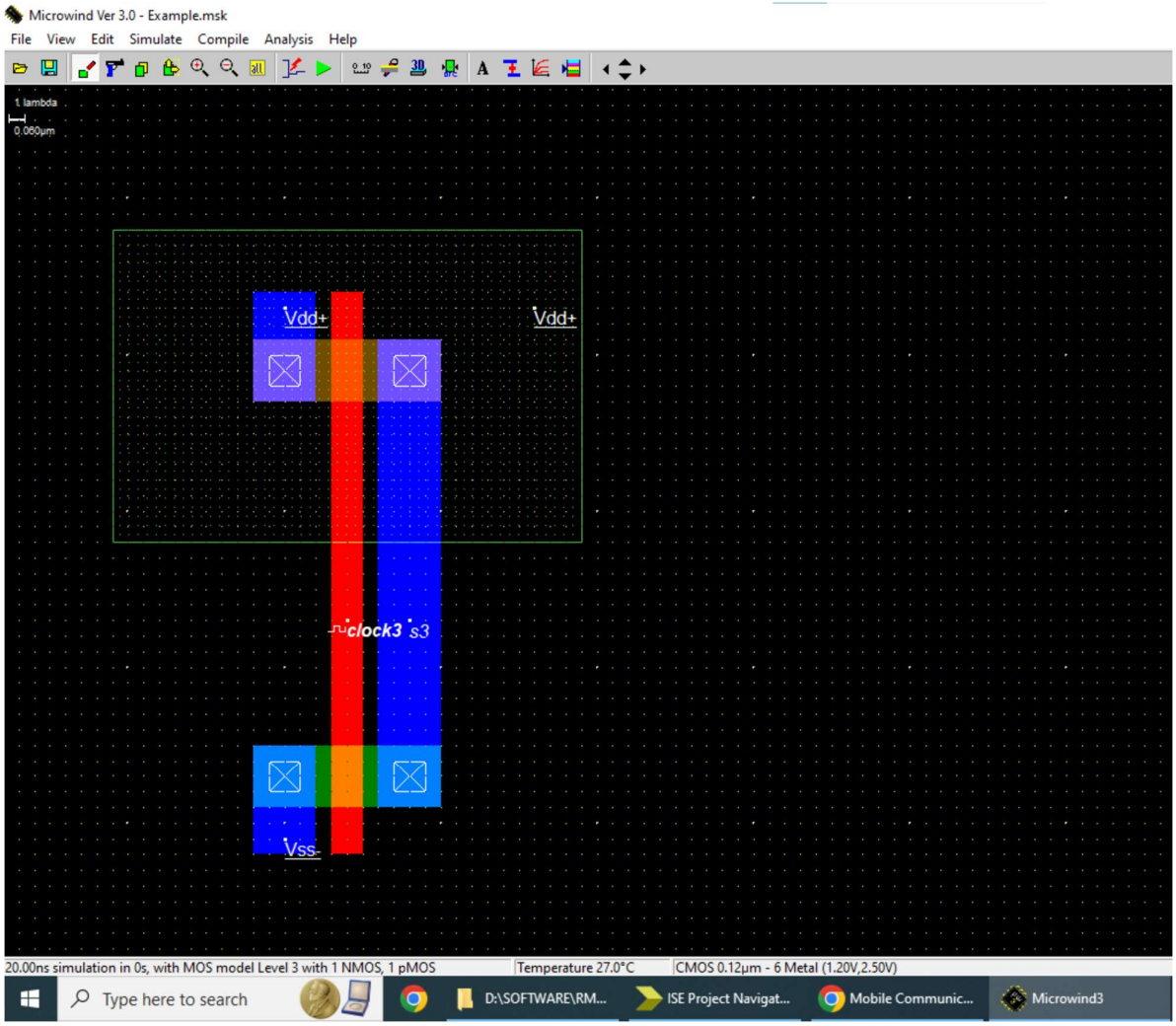

Vdd+
Vdd+
clock3
0.01pF
ock4
s2
Vss-


Microwind Ver 3.0 - example
File View Edit Simulate Compile Analysis Help
Analog simulation of example
clock3
clock4
s2
1.20
0.0
20ps
16ps
21ps
Display
Delay
Bus value between...
clock3
and...
s2
Evaluate
Min/max/Av
Frequency
FFT
Time Scale
20 ns
Step (ps)
0.300
More
Reset
Print
Close
P=4.118µW
0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 Time(ns)
Voltage vs. time
Voltages and currents
Voltage vs. voltage
Frequency vs.time
Eye diagram
20.00ns simulation in 1s, with MOS model Level 3 with 2 NMOS, 2 pMOS
Temperature 27.0°C
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
Search
(4) WhatsApp - Google
D:\SOFTWARE\RMD mic
Microwind3
Snipping Tool
Document1 - Word
13:15:36
08-10-2024

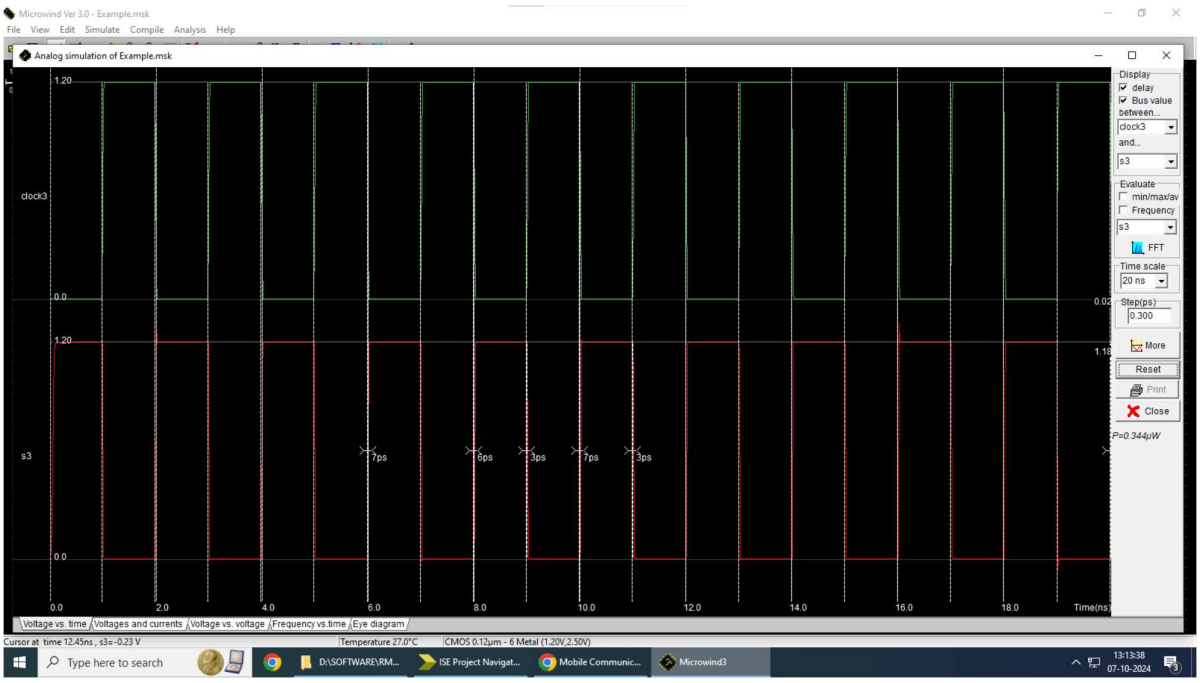
NOR


Microwind Ver 3.0 - Example.msk
File View Edit Simulate Compile Analysis Help
Vdd+
Vdd+
clock1
clock2
s1
Vss-
Palette
Options
Metal 6
Metal 5
Metal 4
Metal 3
Metal 2
Metal 1
Polysilicon 2
Contact
Polysilicon
P+ Diffusion
N+ Diffusion
N Well
Add text "s1", visible at location 80,19.
Vdd
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
Nifty smlcap
+1.00%
Search
(3) WhatsApp - Google
D:\SOFTWARE\RMD mic
Microwind3
Document1 - Word
13:22:37
08-10-2024


Microwind Ver 3.0 - Example.msk
File View Edit Simulate Compile Analysis Help
Analog simulation of Example.msk
clock1
clock2
Vss
1.20
0.0
0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 Time(ns)
Display
Delay
Bus value between...
clock1
and...
clock1
Evaluate
Min/max/Av
Frequency
clock1
FFT
Time Scale
10 ns
Step (ps)
0.300
More
Reset
Print
Close
P=0.208mW
Voltage vs. time
Voltages and currents
Voltage vs. voltage
Frequency vs.time
Eye diagram


Microwind Ver 3.0 - Example.msk
File View Edit Simulate Compile Analysis Help
1 lambda
0.060µm
Vdd+
Vdd+
clock3 s3
Vss-
20.00ns simulation in 0s, with MOS model Level 3 with 1 NMOS, 1 pMOS
Temperature 27.0°C
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
Type here to search
D:\SOFTWARE\RM...
ISE Project Navigat...
Mobile Communic...
Microwind3

Microwind Ver 3.0 - Example.msk
File View Edit Simulate Compile Analysis Help
Analog simulation of Example.msk
clock1
clock2
Vss
1.20
0.0
0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 Time(ns)
Display
Delay
Bus value between...
clock1
and...
clock1
Evaluate
Min/max/Av
Frequency
clock1
FFT
Time Scale
10 ns
Step (ps)
0.300
More
Reset
Print
Close
P=0.208mW
Voltage vs. time
Voltages and currents
Voltage vs. voltage
Frequency vs.time
Eye diagram
Cursor at time 1.88ns , clock1=1.01 V
Temperature 27.0°C
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
JPY/INR +0.47%
Search
(3) WhatsApp - Google
D:\SOFTWARE\RMD mic
Microwind3
Document1 - Word
13:25:29
08-10-2024


Microwind Ver 3.0 - Example.msk
File View Edit Simulate Compile Analysis Help
Analog simulation of Example.msk
clock3
s3
1.20
0.0
7ps
6ps
3ps
7ps
3ps
0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 Time(ns)
Display
delay
Bus value between...
clock3
and...
s3
Evaluate
min/max/av
Frequency
s3
FFT
Time scale
20 ns
Step(ps)
0.300
More
Reset
Print
Close
P=0.344µW
Voltage vs. time
Voltages and currents
Voltage vs. voltage
Frequency vs.time
Eye diagram
Cursor at time 12.45ns , s3=-0.23 V
Temperature 27.0°C
CMOS 0.12µm - 6 Metal (1.20V,2.50V)
Type here to search
D:\SOFTWARE\RM...
ISE Project Navigat...
Mobile Communic...
Microwind3
13:13:38
07-10-2024