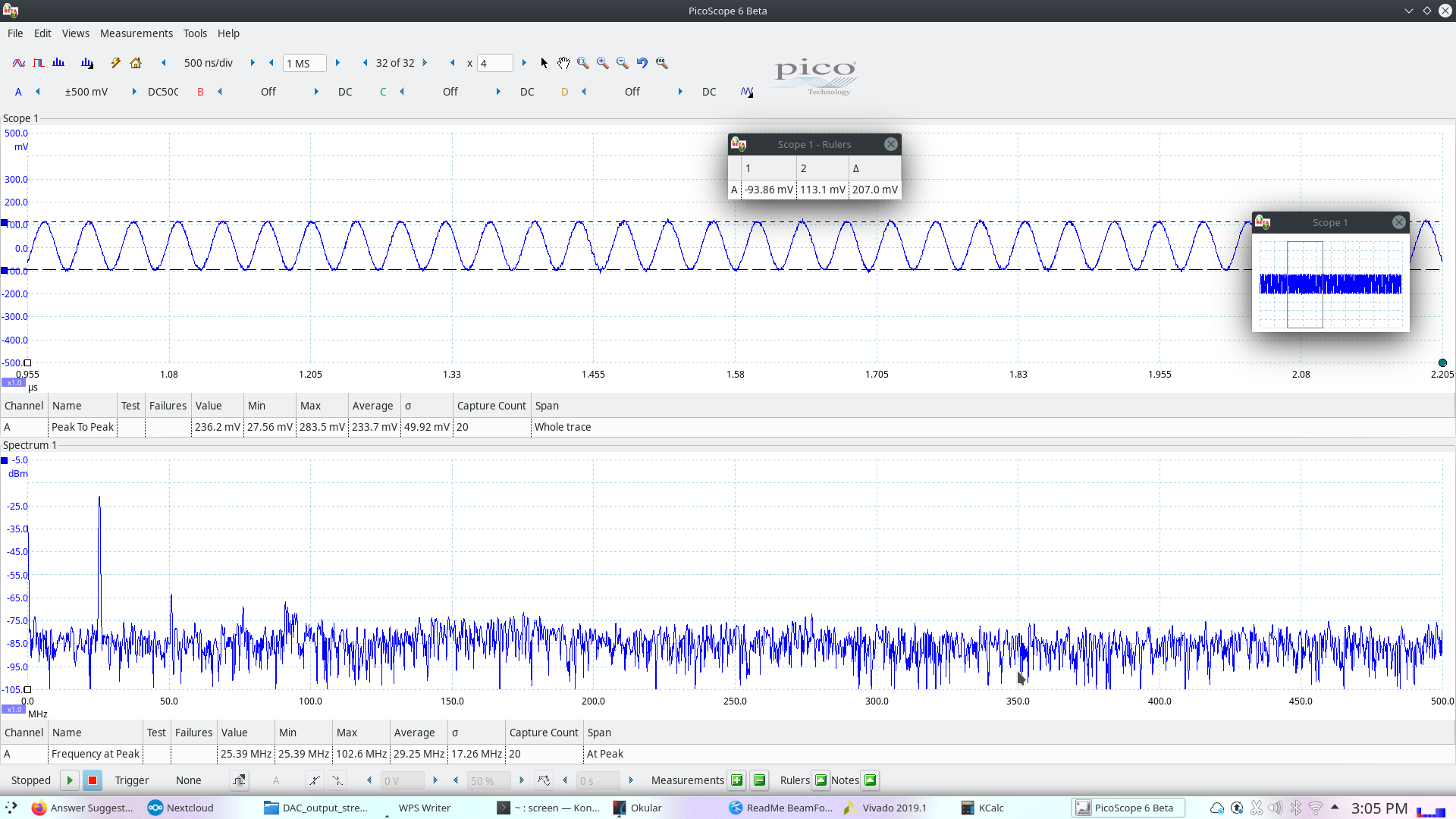
DAC output @C36 (IOUTA\_P) with 0x2=0x20c2

Mixer enabled;

Mixer gain = 0dB;

RBias = 1.91Kohm

*coarse\_dac\_gain* = 0xF



Measured result:

IOUTA\_P = 222mV

IOUTA\_N = 222mV

Vout = IOUTA\_P + IOUTA\_N

**= 444mV**

Expected output:

IOUT = 30mA \* 50 - 6dB(mixer loss)

= 1.5V - 6dB

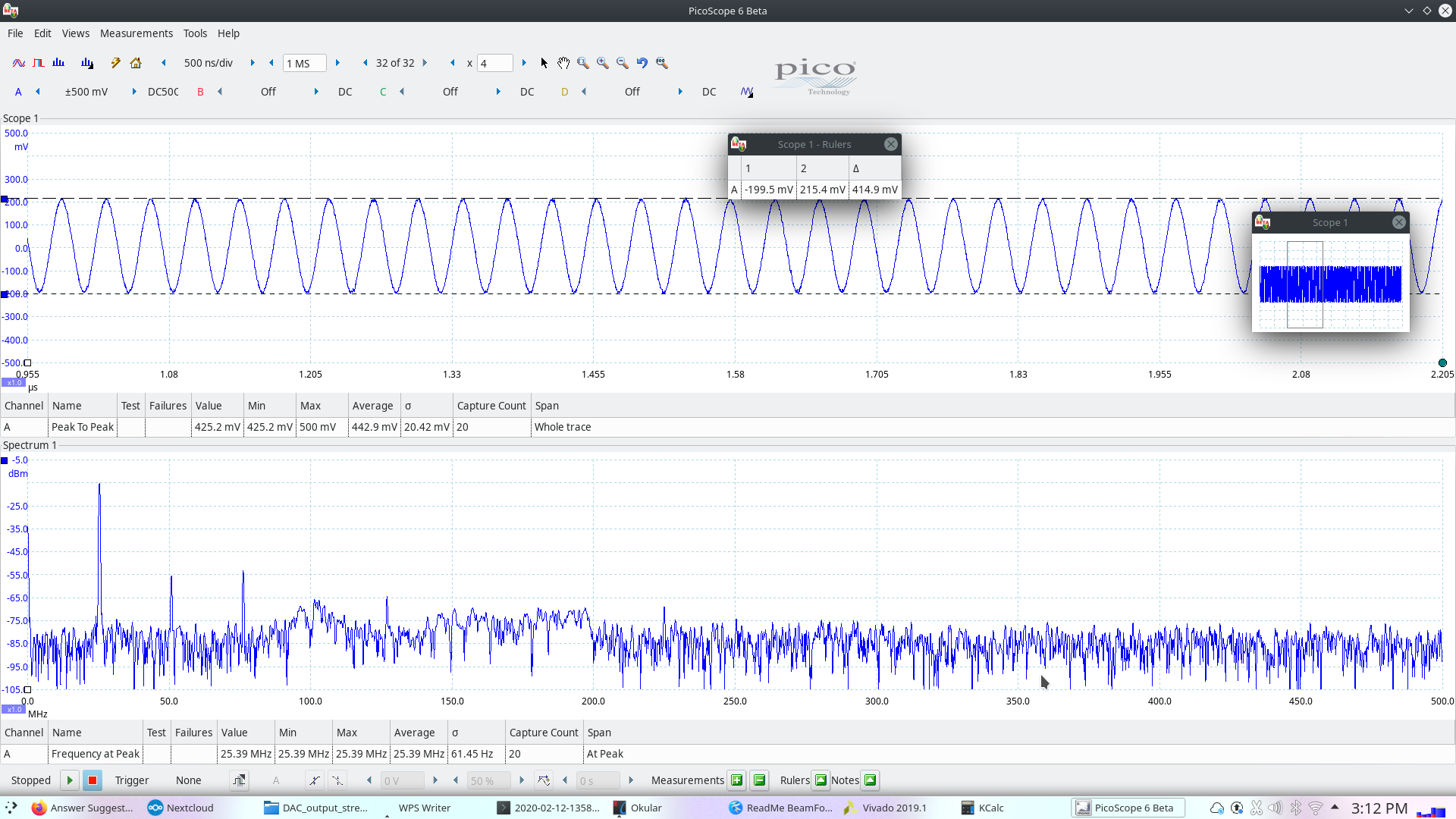
**= 0.75V**

DAC output @C36 (IOUTA\_P) with 0x2=0x2082(Mixer Disabled)

Mixer disabled;

RBias = 1.91Kohm;

*coarse\_dac\_gain* = 0xF which means DACFSC = 30mA;



Measured result:

IOUTA\_P = 410mV

IOUTA\_N = 410mV

Vout = IOUTA\_P + IOUTA\_N

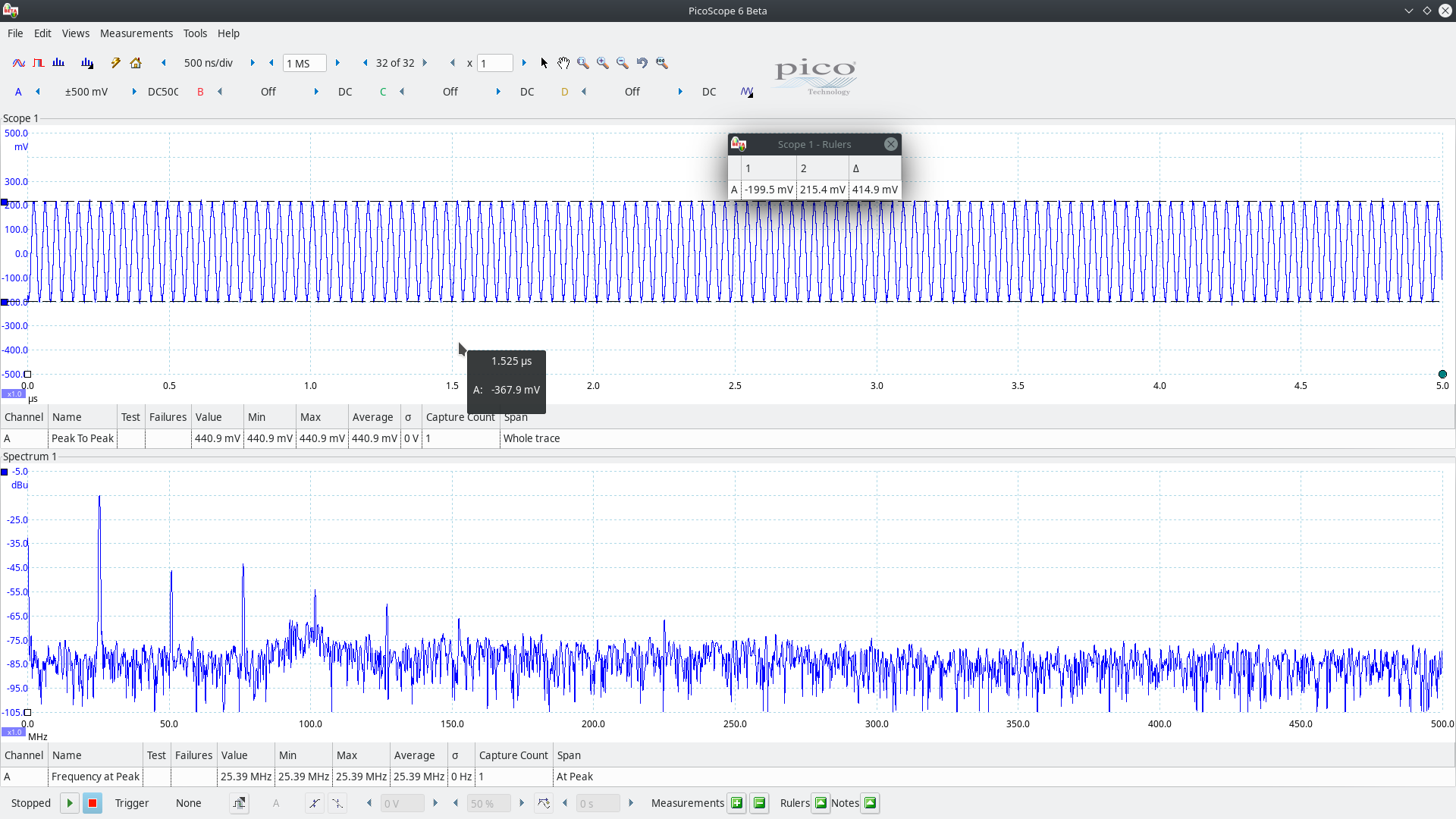
**= 820mV**

Expected output:

Vout = 30mA \* 50ohm

**= 1.5V**

DAC output @C36 with 0x2=0x20e2(Mixer Enabled with 6dB gain)



Measured result:

IOUTA\_P = 410mV

IOUTA\_N = 410mV

Vout = IOUTA\_P + IOUTA\_N

**= 820mV**

Expected output:

IOUT = 30mA \* 50 - 6dB(mixer loss) + 6dB(mixer gain enabled)

= 1.5V - 6dB + 6dB

**= 1.5V**