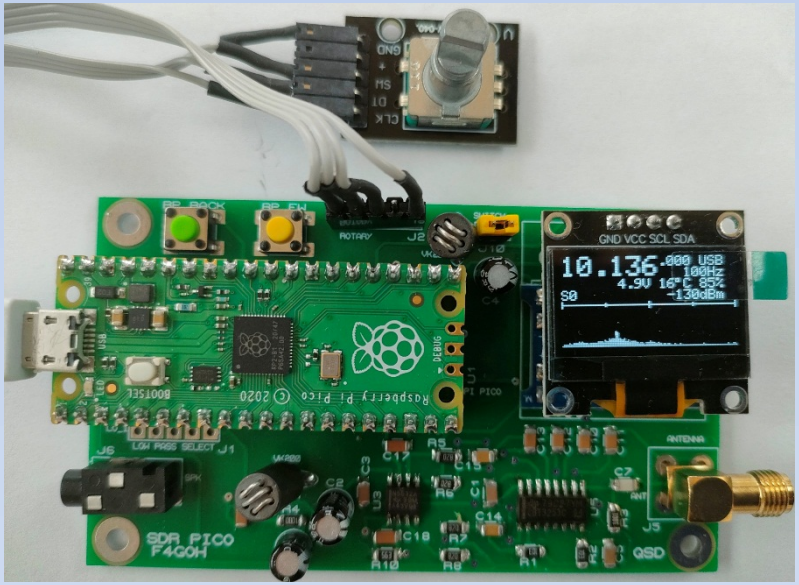
Technique

N°992 | Janvier 2025

Récepteur Pico SDR HF

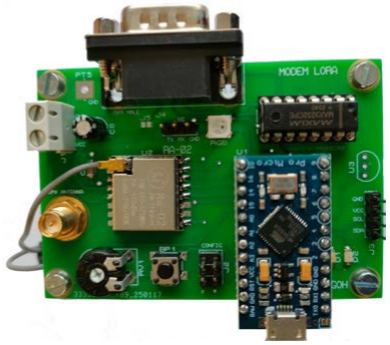
Anthony Le Cren F4GOH - KF4GOH

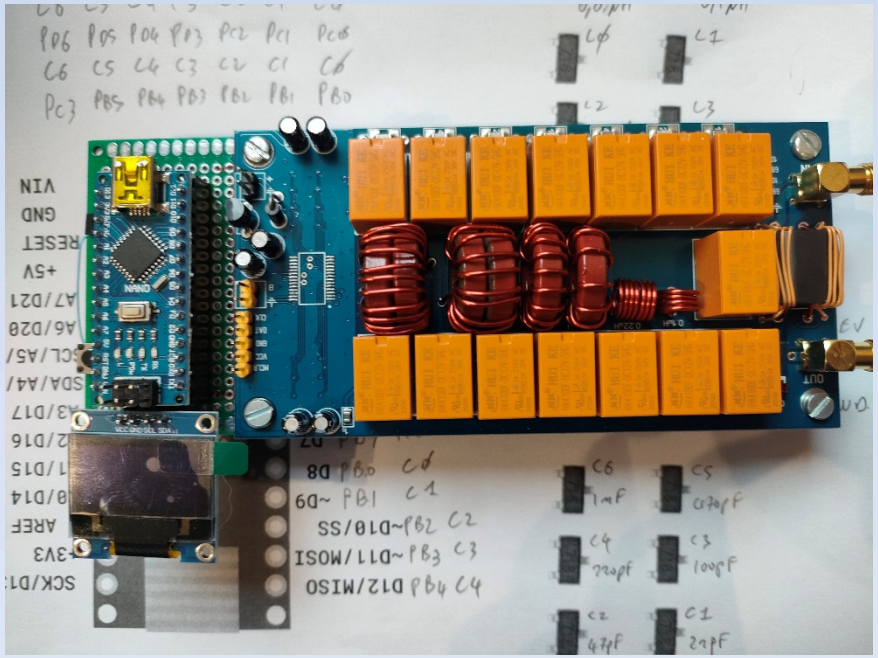


Technique

Modem LoRa expérimental

Anthony Le Cren F4GOH – KF4GOH





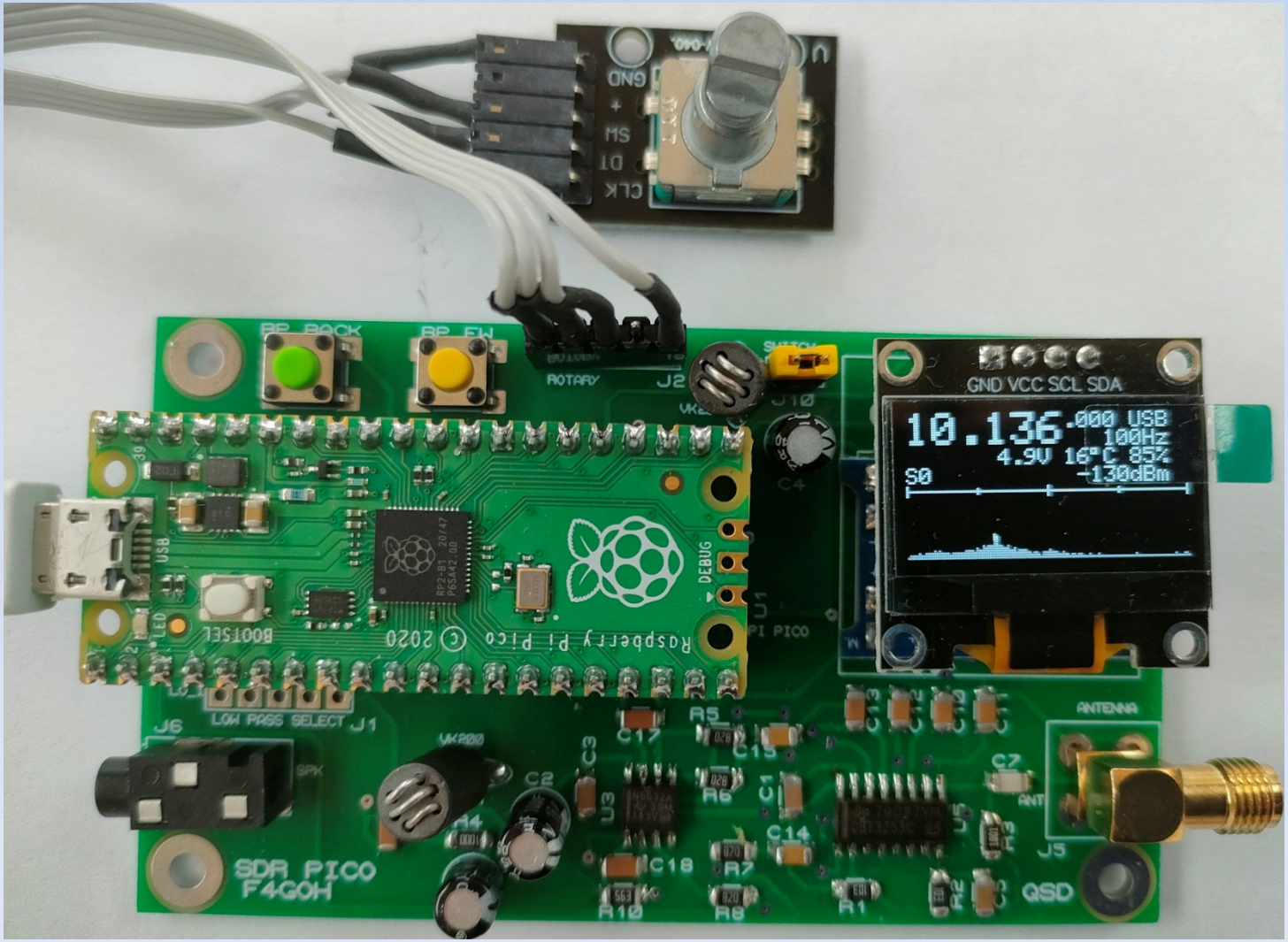
CQ-QSO UBA
Experimenteren met communicatie via radiogolven
Etude et expérimentations des radiocommunications
03-04 2024

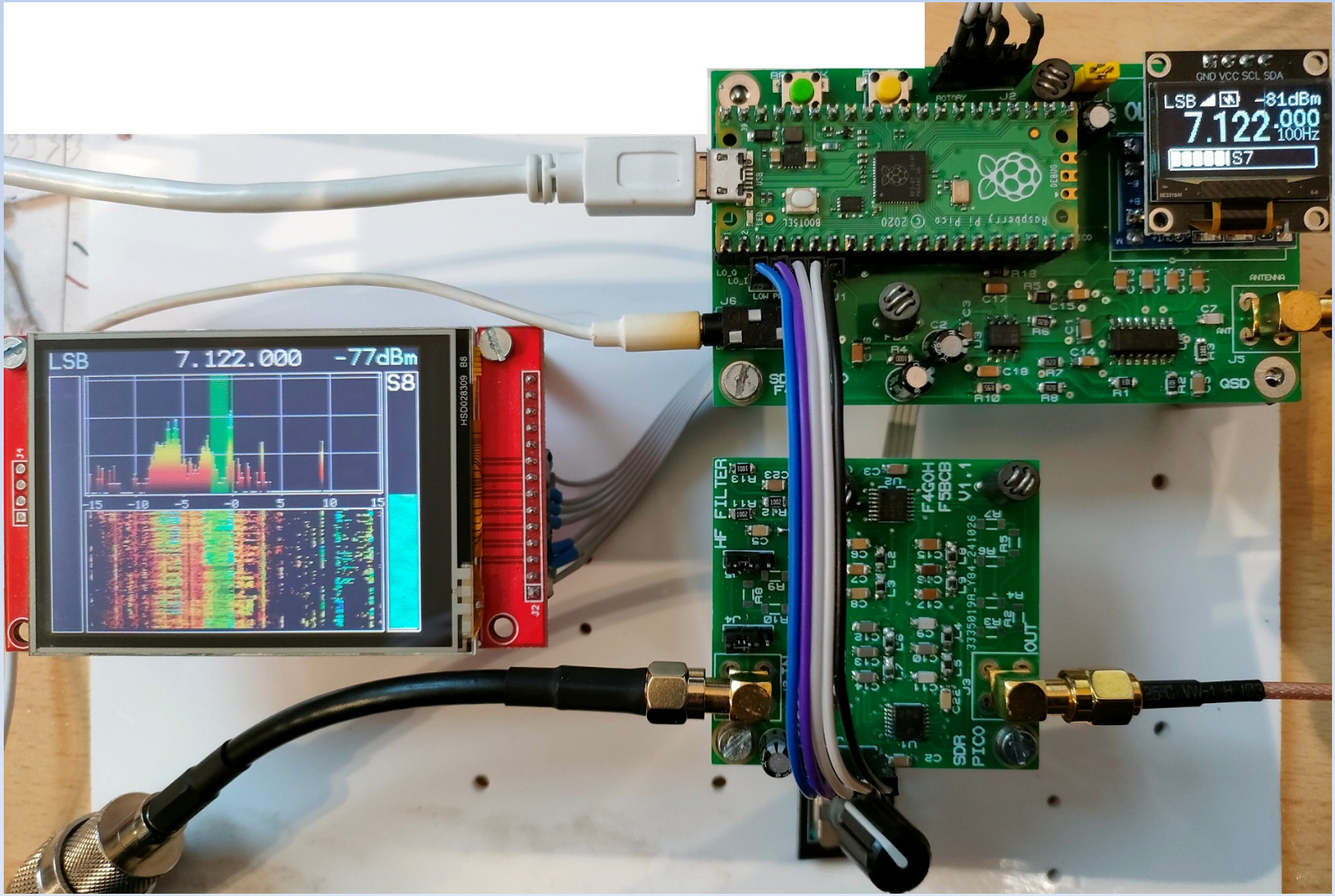
Radioaficionados

FUNK AMATEUR

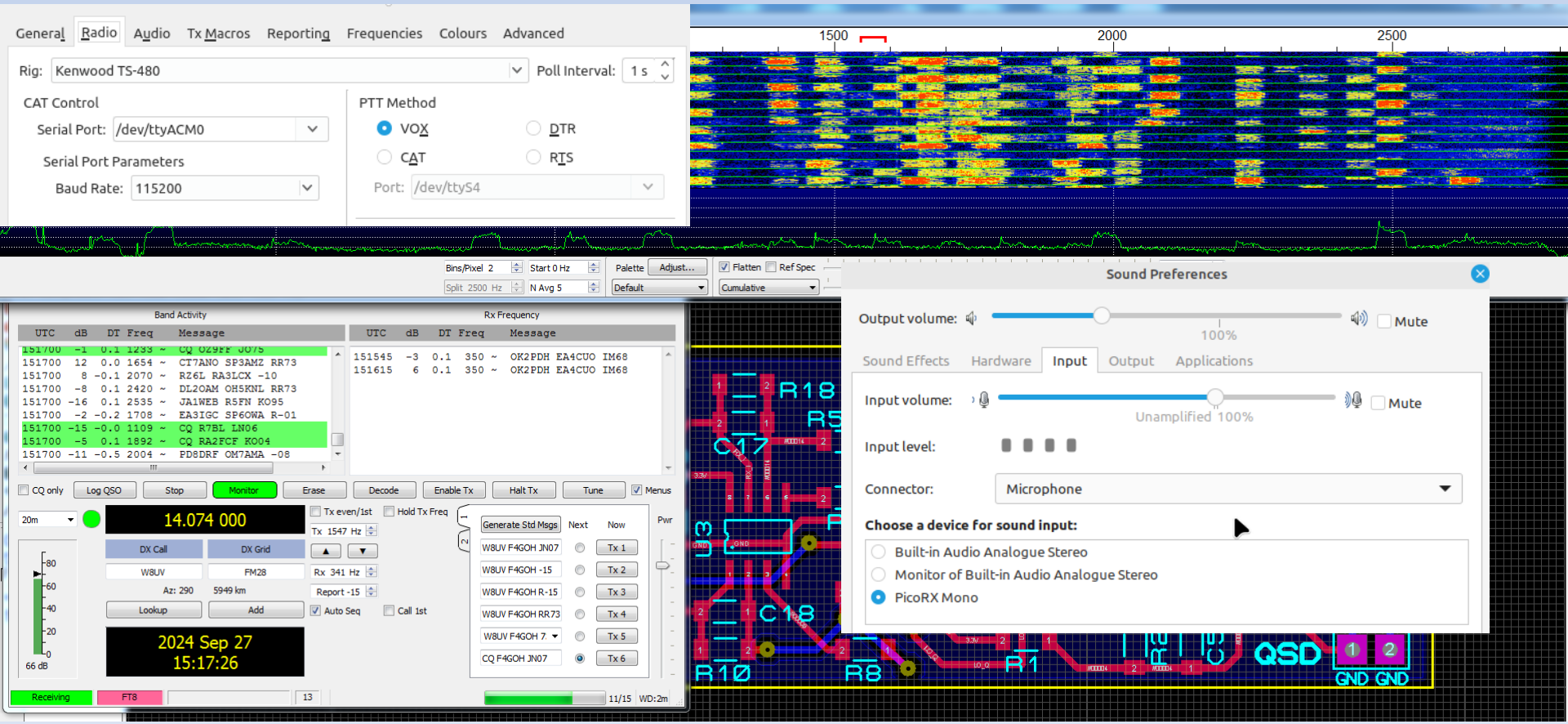
Anthony LE CREN, F4GOH – KF4GOH

Récepteur HF




LSB 7.122.000 -77dBm
S8
GND VCC SCL SDA
LSB -81dBm
7.122.000
100Hz
S7
HF FILTER
F4GOH
F5BCB
V1.1
SDR
PICO
ANTENNA
QSD

Update cat & audio usb



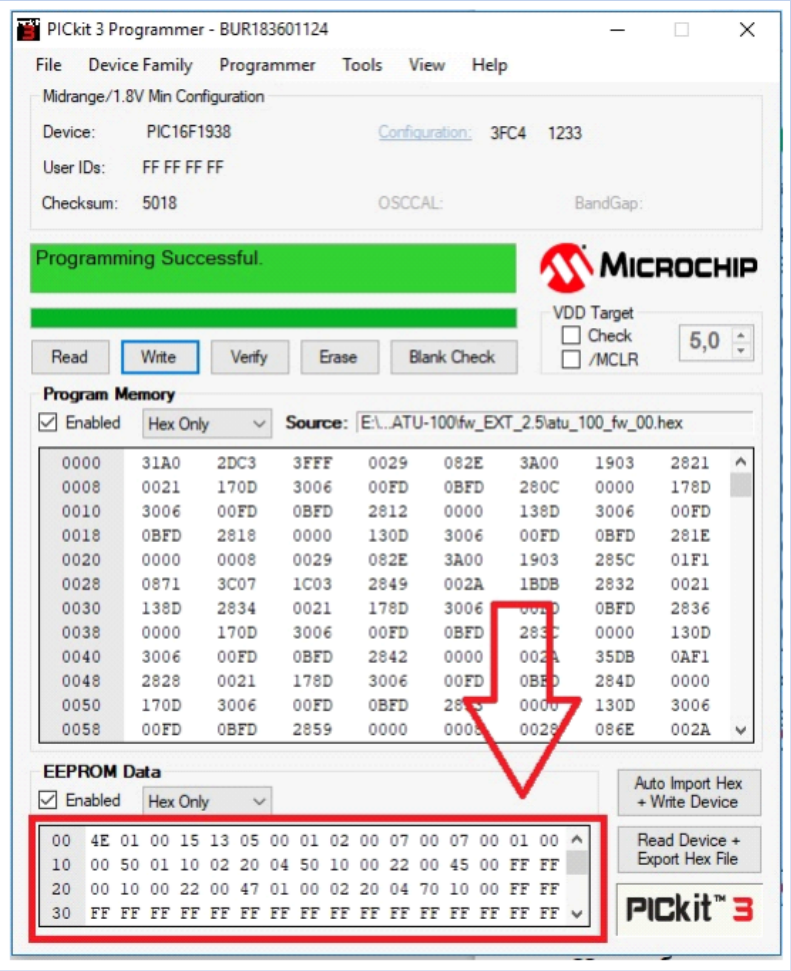
Tuner automatique



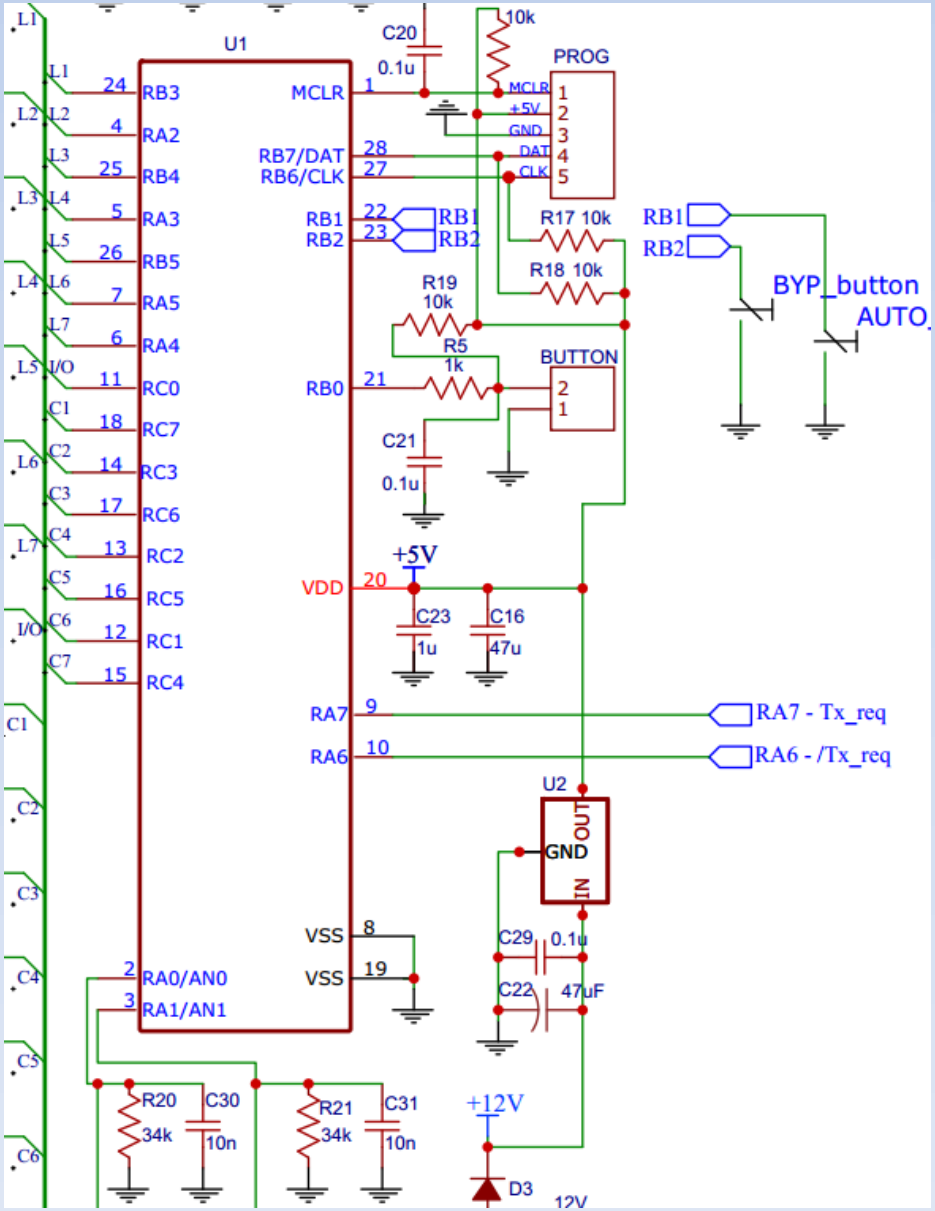




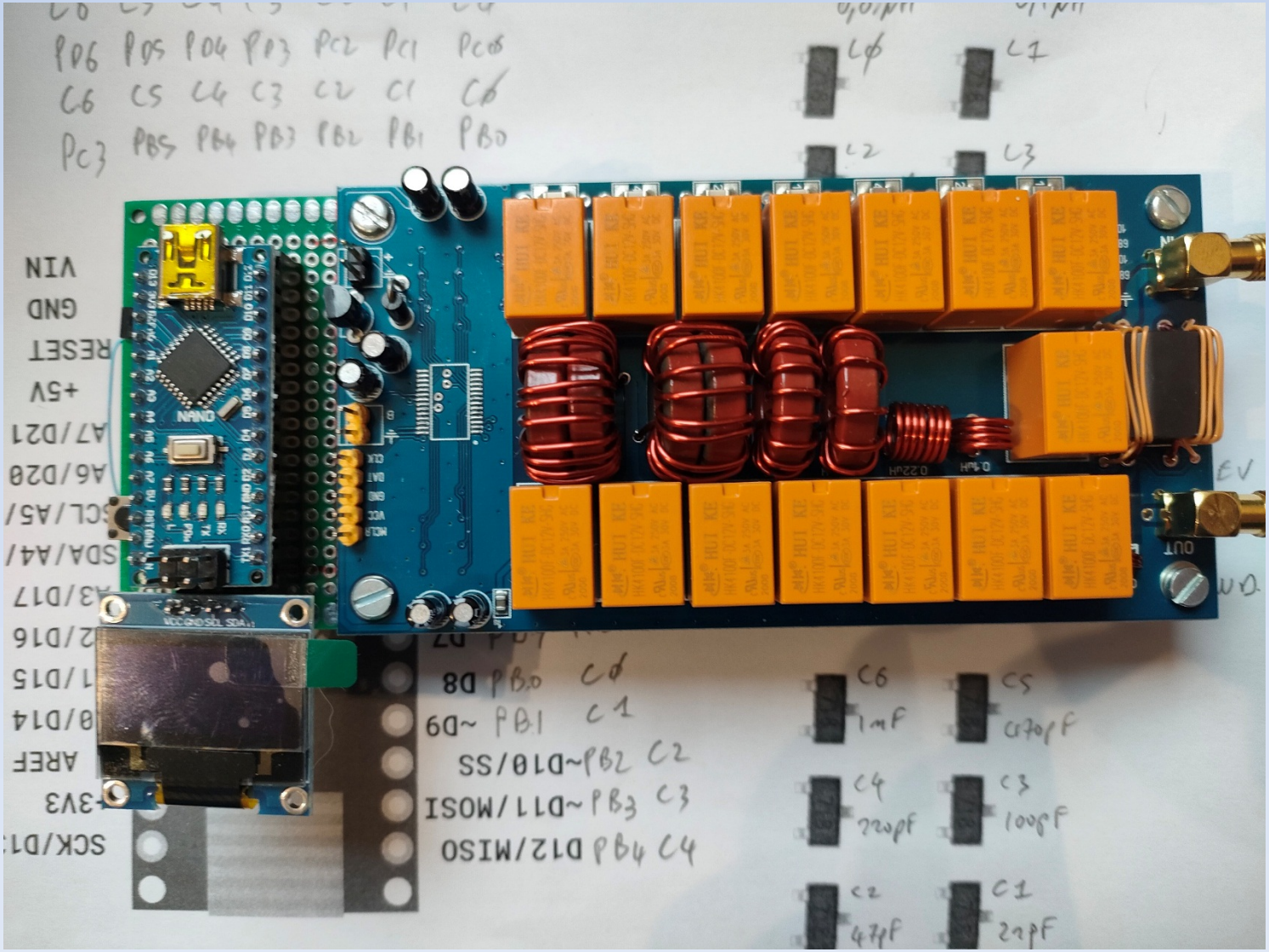




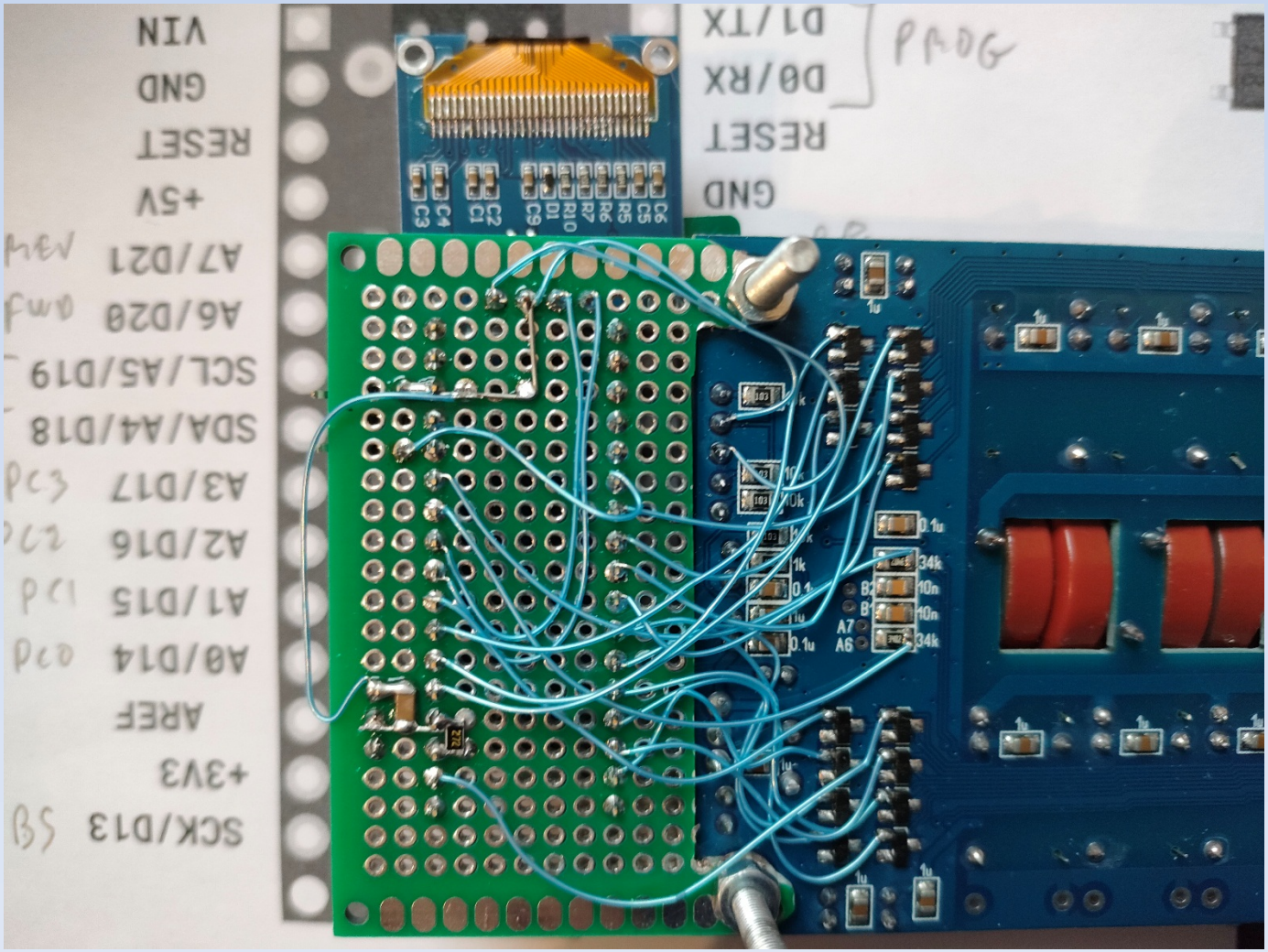
ADC 1024 vmV Vref
ADC 2048 vmV Vref
ADC 4096 vmV Vref

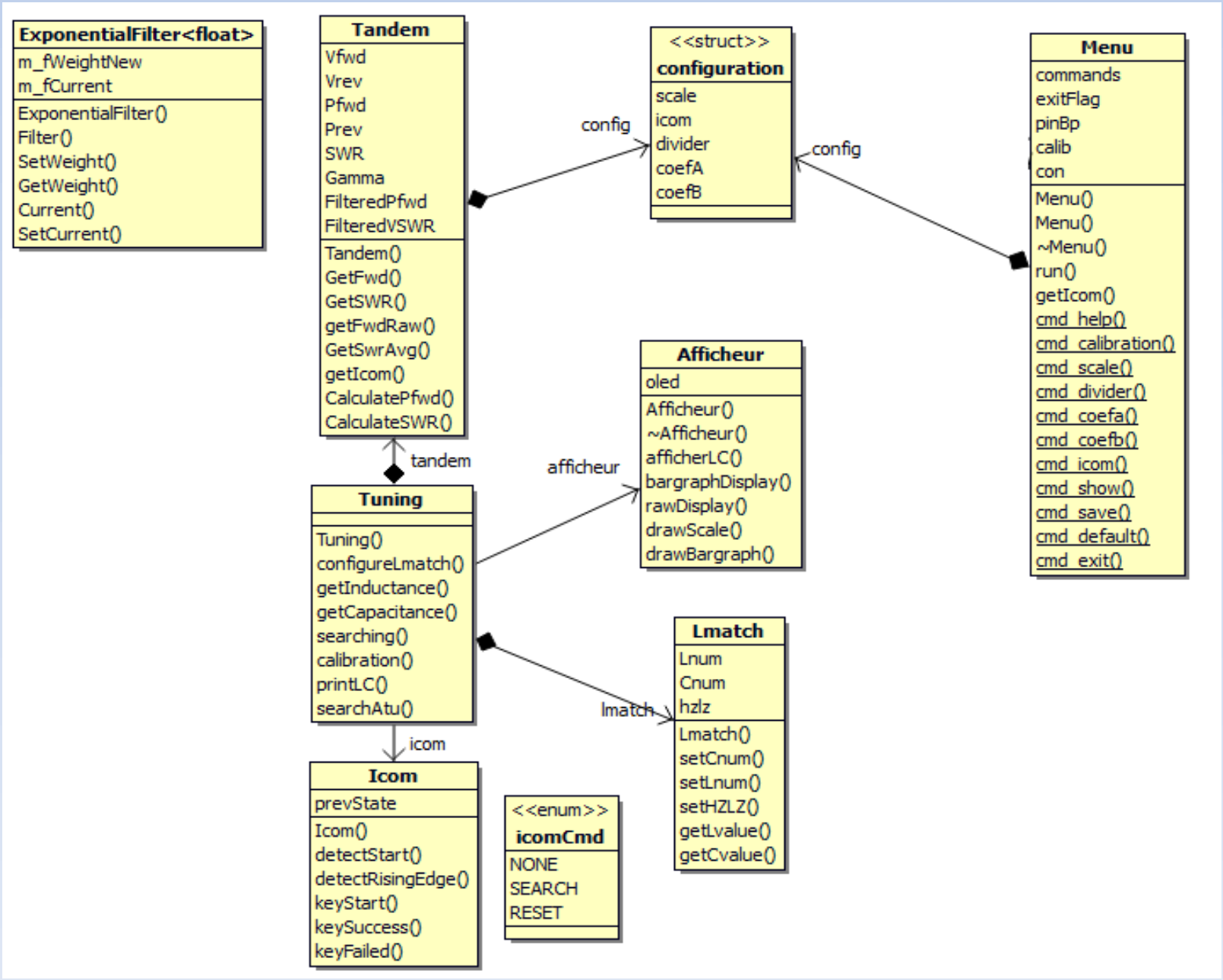


Tuner automatique



Tuner automatique




ExponentialFilter<float>
m_fWeightNew
m_fCurrent
ExponentialFilter()
Filter()
SetWeight()
GetWeight()
Current()
SetCurrent()
Tandem
Vfwd
Vrev
Pfwd
Prev
SWR
Gamma
FilteredPfwd
FilteredVSWR
Tandem()
GetFwd()
GetSWR()
getFwdRaw()
GetSwrAvg()
getIcom()
CalculatePfwd()
CalculateSWR()
config
<<struct>>
configuration
scale
icom
divider
coefA
coefB
config
Menu
commands
exitFlag
pinBp
calib
con
Menu()
Menu()
~Menu()
run()
getIcom()
cmd_help()
cmd_calibration()
cmd_scale()
cmd_divider()
cmd_coefa()
cmd_coefb()
cmd_icom()
cmd_show()
cmd_save()
cmd_default()
cmd_exit()
tandem
Afficheur
oled
Afficheur()
~Afficheur()
afficherLC()
bargraphDisplay()
rawDisplay()
drawScale()
drawBargraph()
afficheur
Tuning
Tuning()
configureLmatch()
getInductance()
getCapacitance()
searching()
calibration()
printLC()
searchAtu()
lmatch
Lmatch
Lnum
Cnum
hzlz
Lmatch()
setCnum()
setLnum()
setHZLZ()
getLvalue()
getCvalue()
icom
Icom
prevState
Icom()
detectStart()
detectRisingEdge()
keyStart()
keySuccess()
keyFailed()
<<enum>>
icomCmd
NONE
SEARCH
RESET

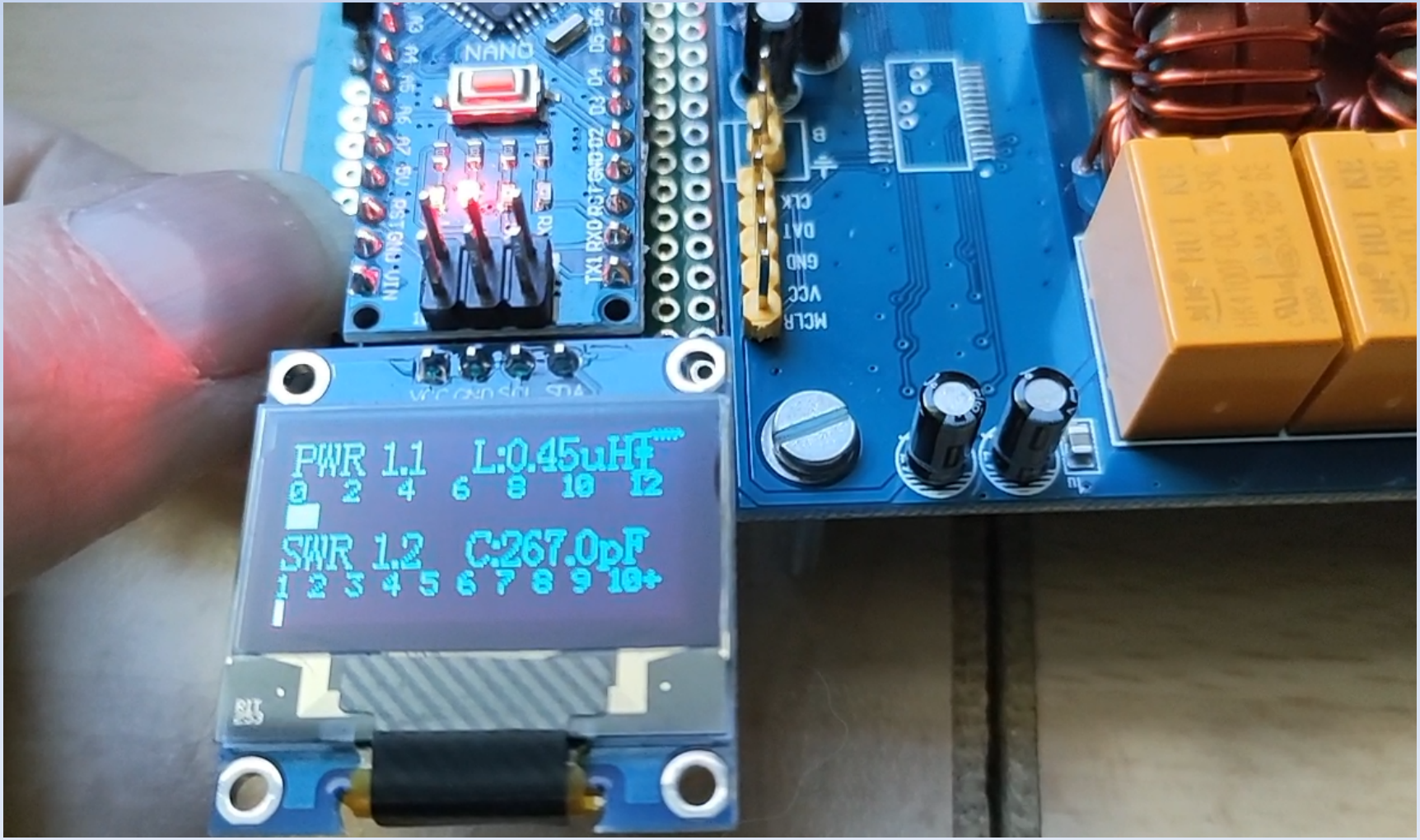
help

help - list commands
calibration <0 / 1> - calibration sequence
scale <0 / 1> - set QRP/QRO
icom <0 / 1> - enable EXT TUNE
divider <float> - set divider
coefa <float> - set coefa
coefb <float> - set coefb
show -
save -
default -
exit –

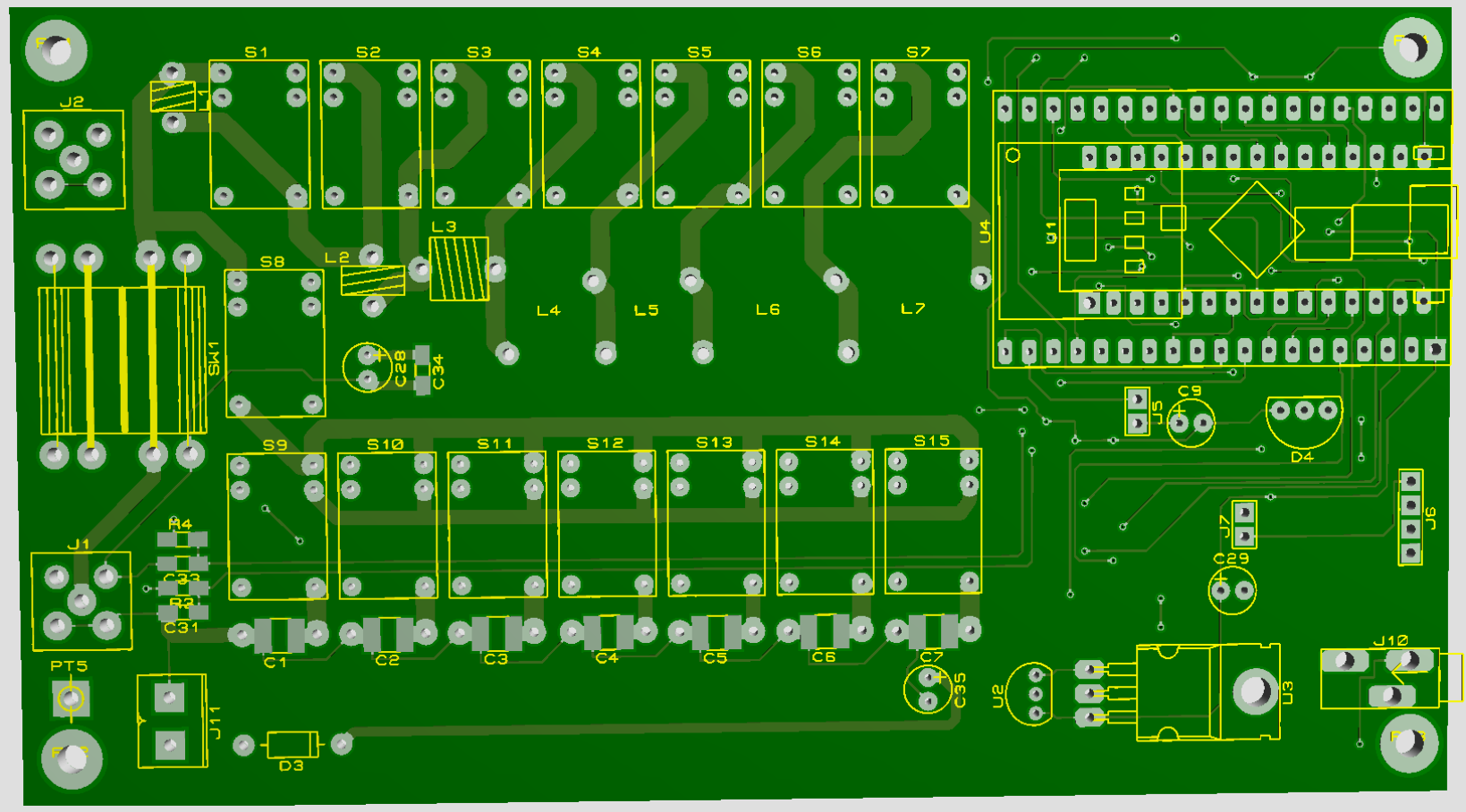
show

Config is
Scale :0
ICOM ATU enable:1
Divider :3.30
Coef A :1.08
Coef B :0.07

Afficheur OLED



Nouveau PCB


S1
S2
S3
S4
S5
S6
S7
J2
L1
L3
S8
L2
L4
L5
L6
L7
U4
U1
SW1
C28
C34
C9
J5
D4
S9
S10
S11
S12
S13
S14
S15
J6
J7
C29
J1
R4
C33
R2
C31
C1
C2
C3
C4
C5
C6
C7
C35
U2
U3
J10
PT5
J11
D3


ceo.oric.org
Temperature LM75
20 Deg
ORIC
ATMOS 48K
MC6821P
QL M9N8747
ESC
CTRL
SHIFT
RETURN
DEL