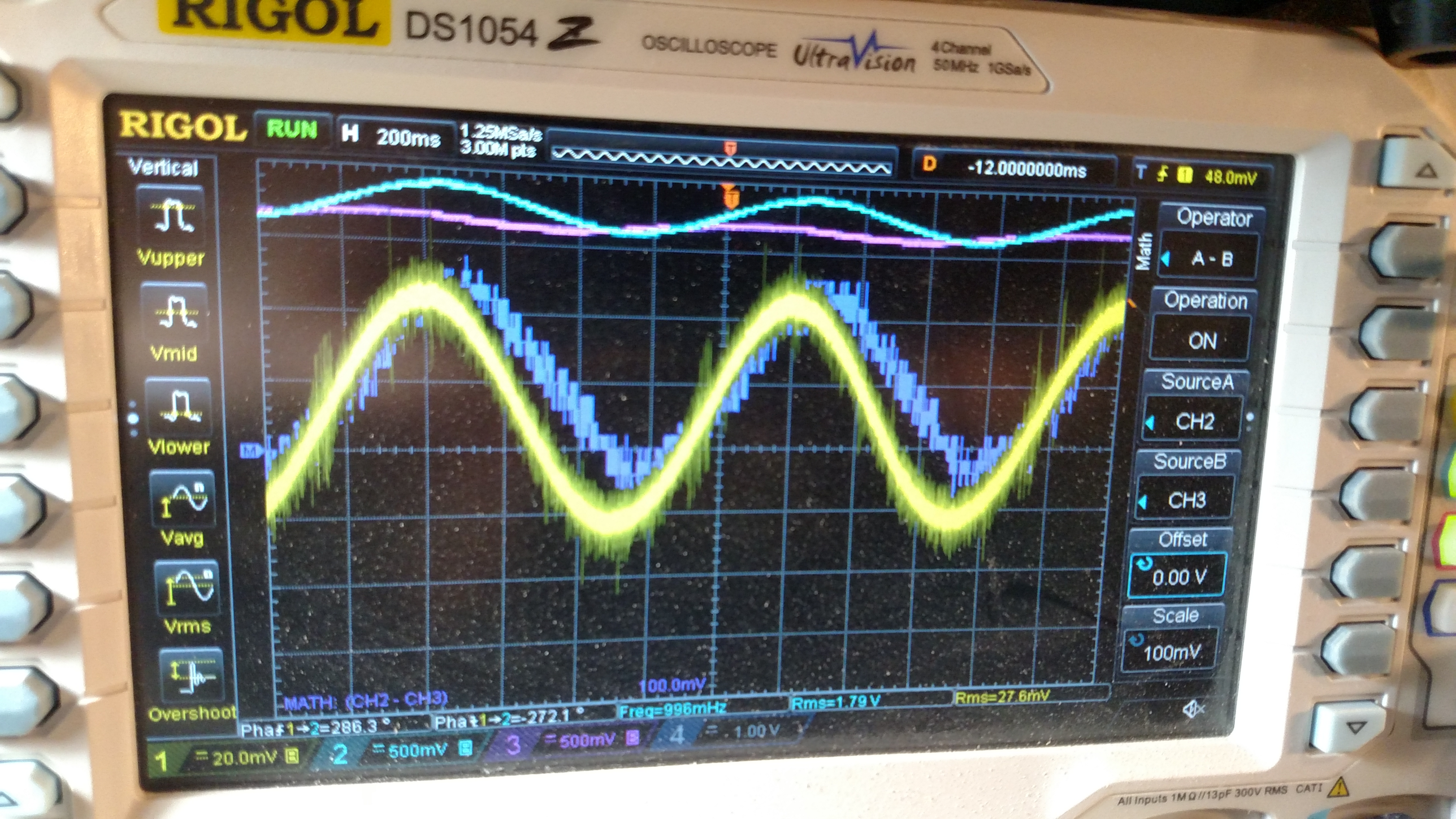
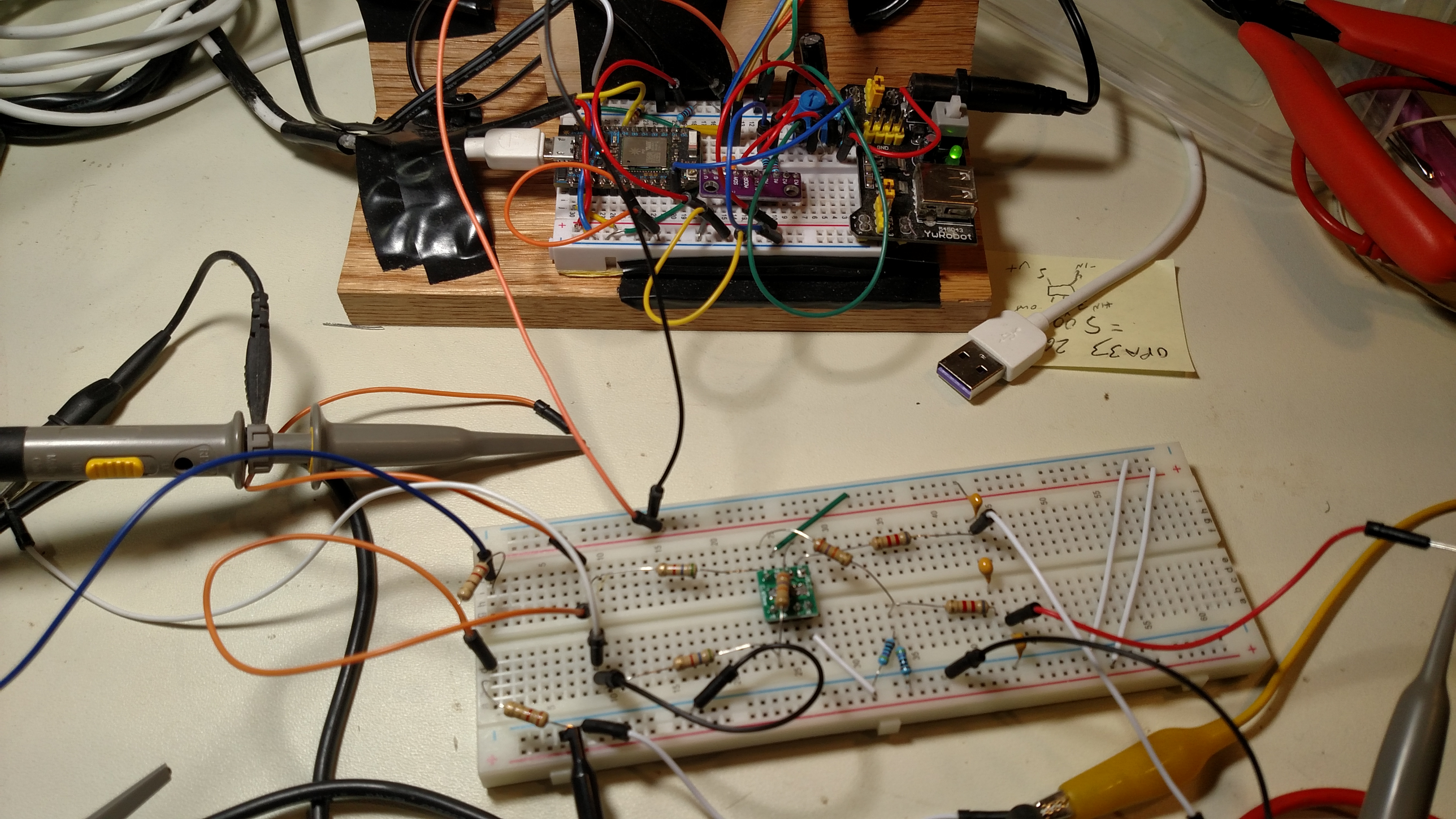
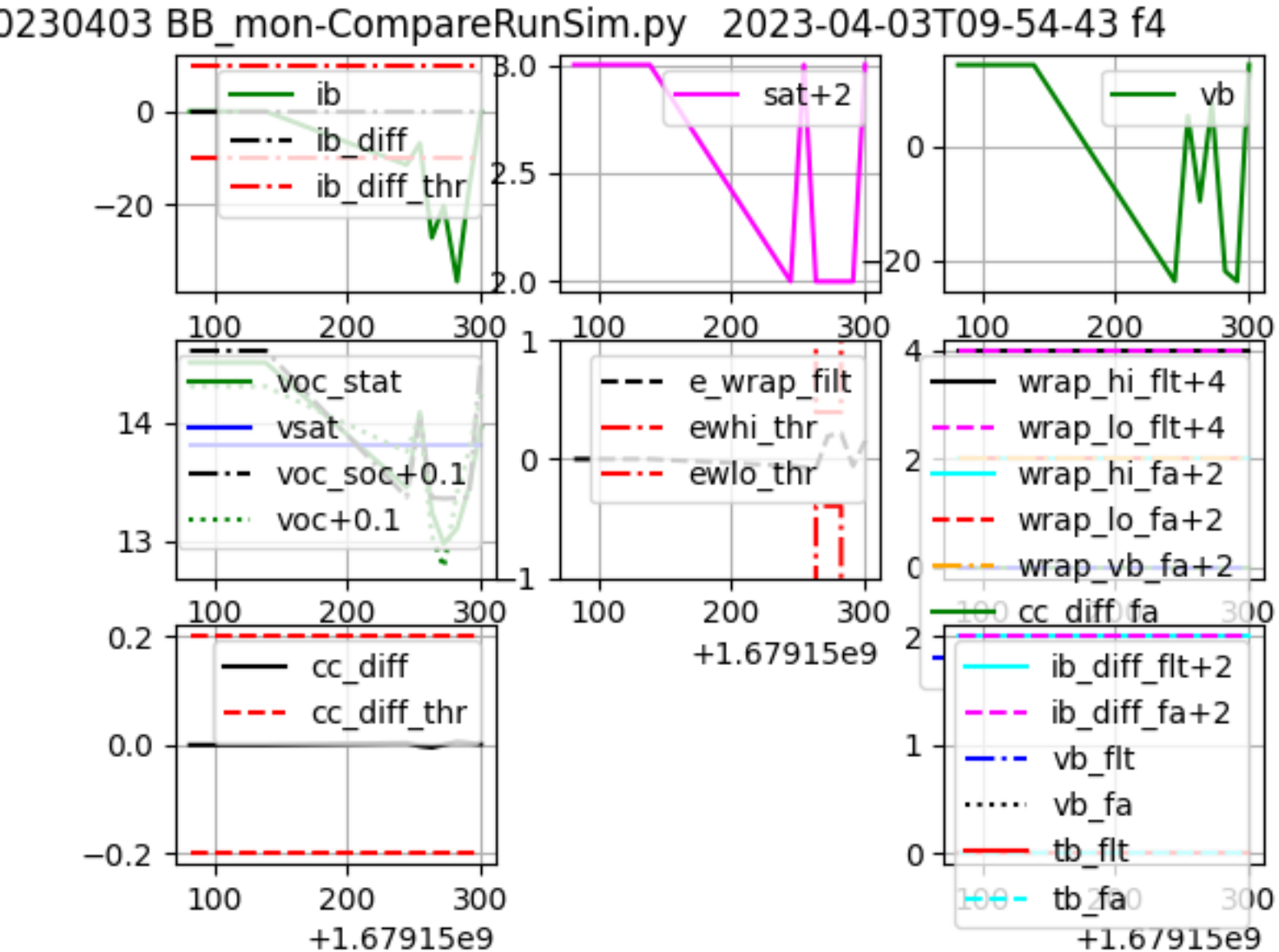
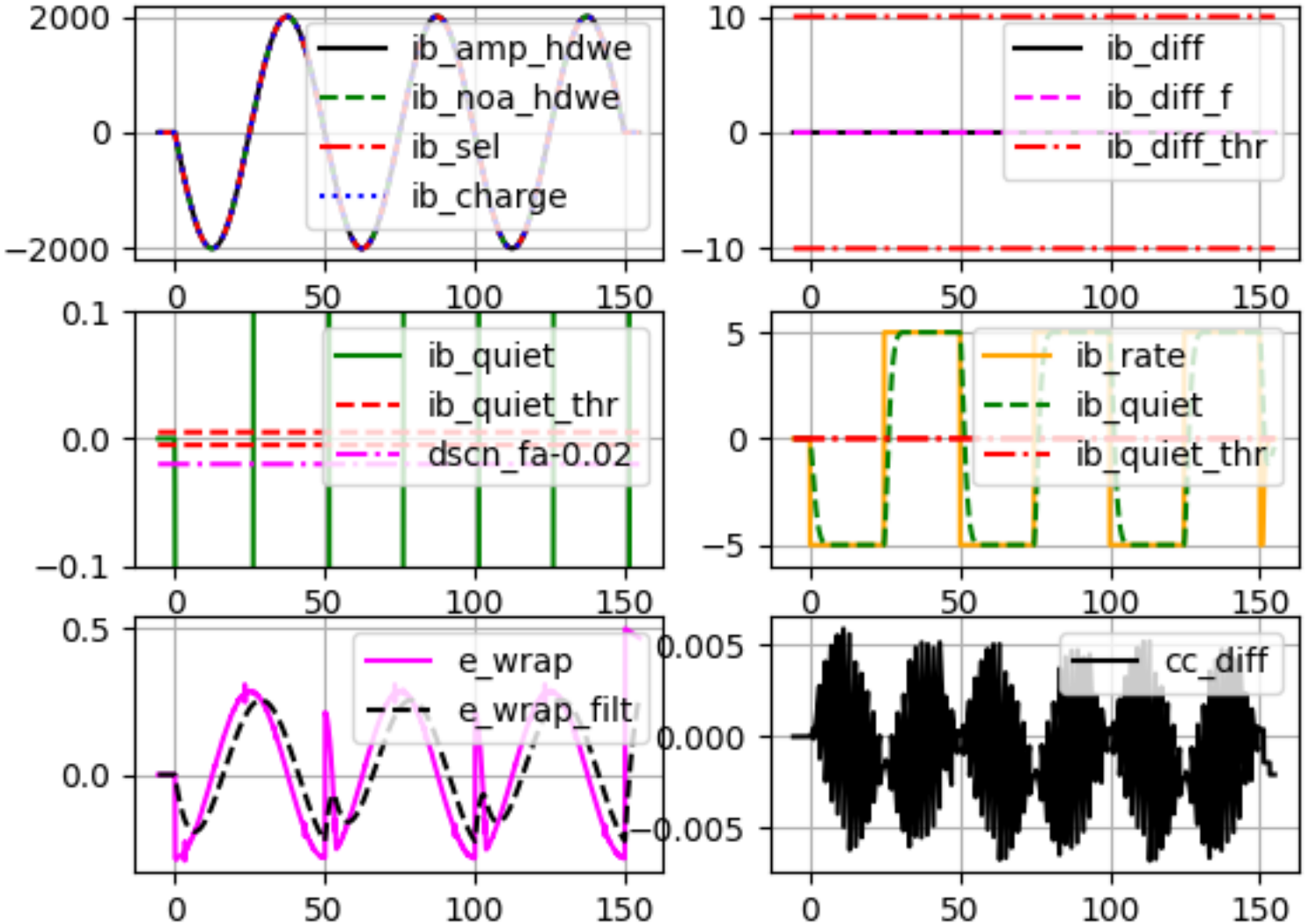
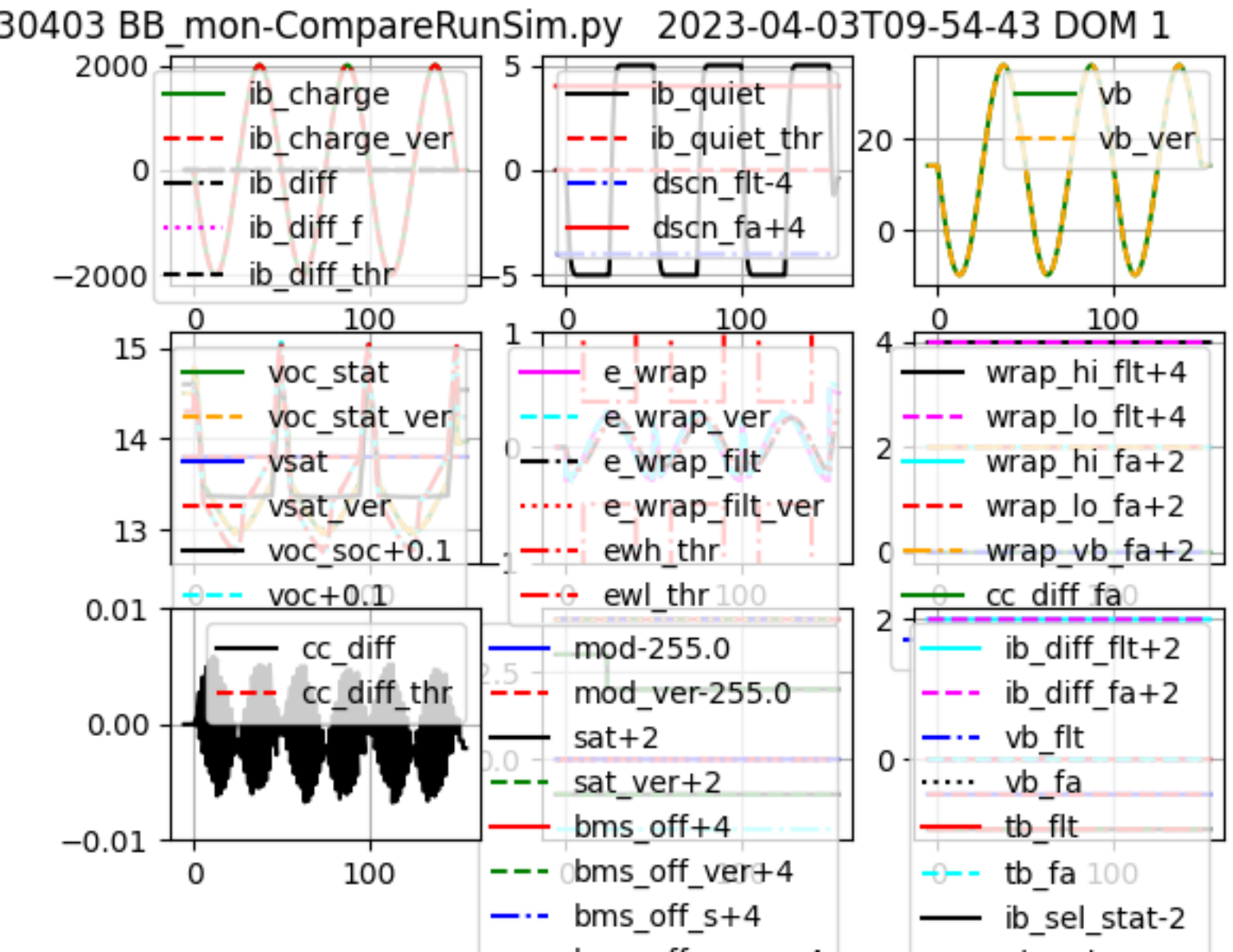

RIGOL
DS1054 Z
OSCILLOSCOPE
UltraVision
4Channel
50MHz 1GSa/s
RIGOL
RUN
H 200ms
1.25MSa/s
3.00M pts
D -12.0000000ms
T 48.0mV
Vertical
Vupper
Vmid
Vlower
Vavg
Vrms
Overshoot
Math
Operator
A - B
Operation
ON
SourceA
CH2
SourceB
CH3
Offset
0.00 V
Scale
100mV
100.0mV
MATH: (CH2 - CH3)
Freq=996mHz
Rms=1.79 V
Rms=27.6mV
Pha 1→2=286.3 °
Pha 1→2=-272.1 °
1 20.0mV
2 500mV
3 500mV
4 1.00 V
All Inputs 1MΩ//13pF 300V RMS CAT I


YuRobot
GND
OPA333

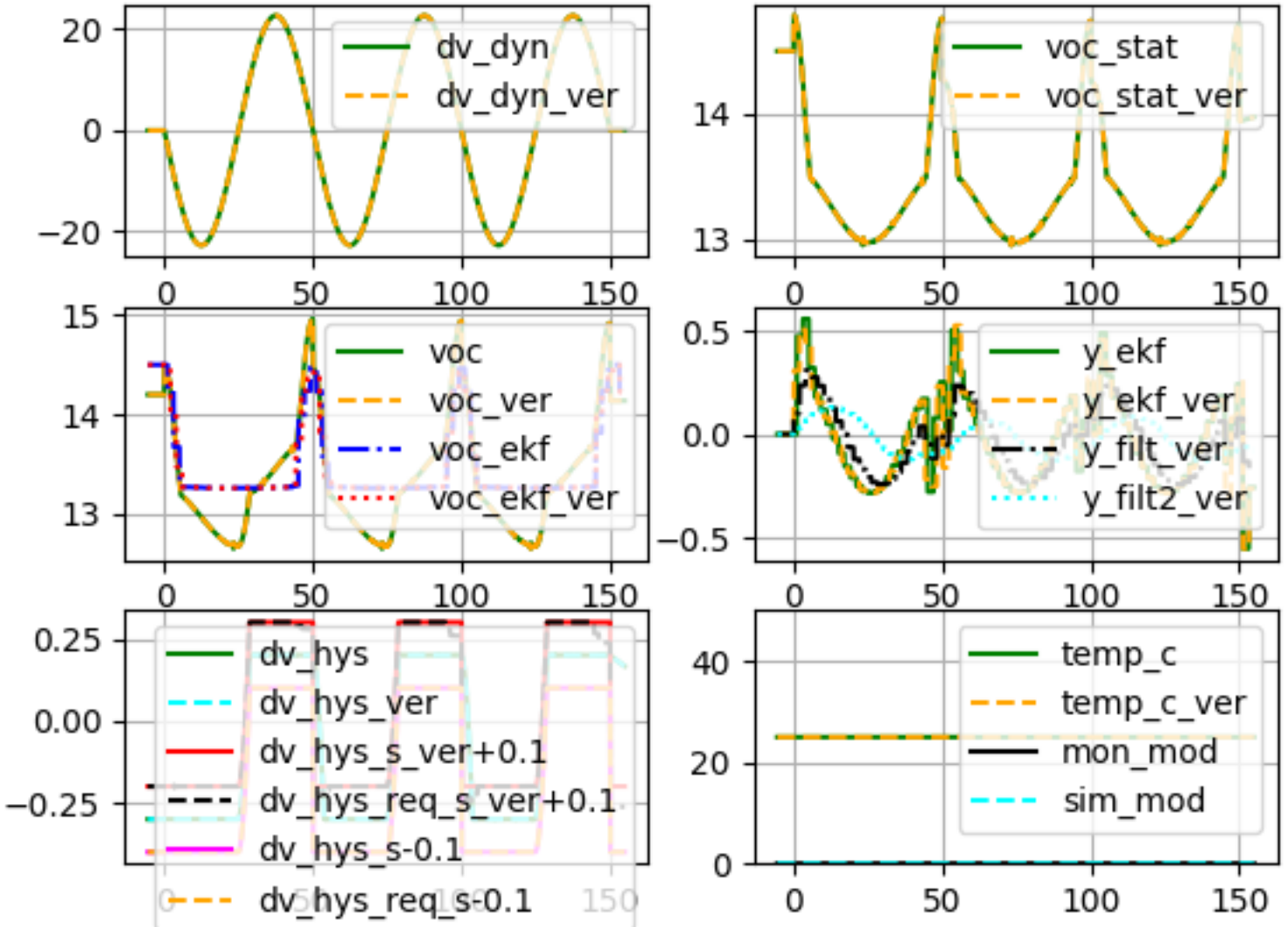

0230403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 f4
ib
ib_diff
ib_diff_thr
sat+2
vb
voc_stat
vsat
voc_soc+0.1
voc+0.1
e_wrap_filt
ewhi_thr
ewlo_thr
wrap_hi_flt+4
wrap_lo_flt+4
wrap_hi_fa+2
wrap_lo_fa+2
wrap_vb_fa+2
cc_diff_fa
cc_diff
cc_diff_thr
ib_diff_flt+2
ib_diff_fa+2
vb_flt
vb_fa
tb_flt
tb_fa
+1.67915e9
+1.67915e9
+1.67915e9

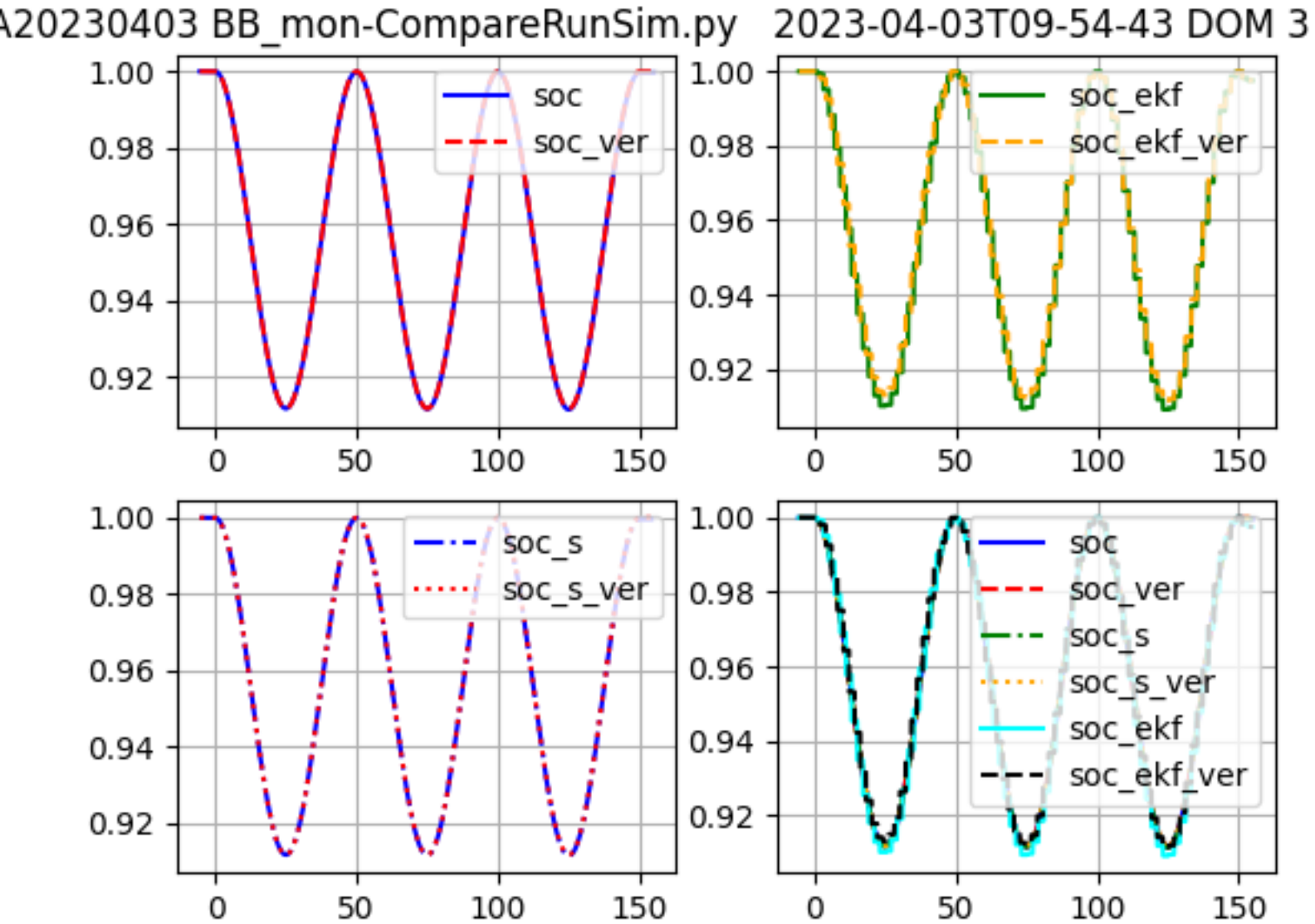
vA20230403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 1a

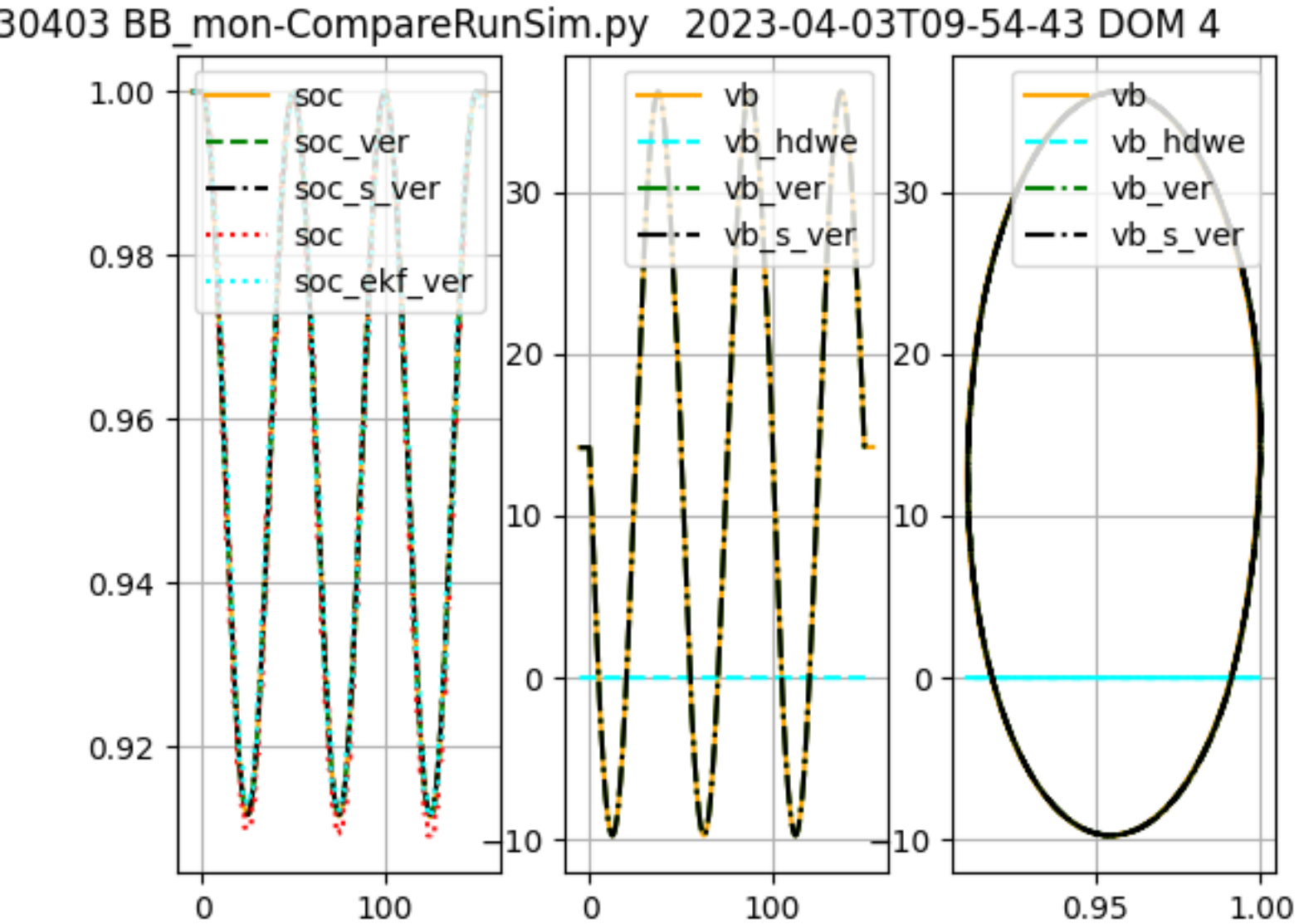


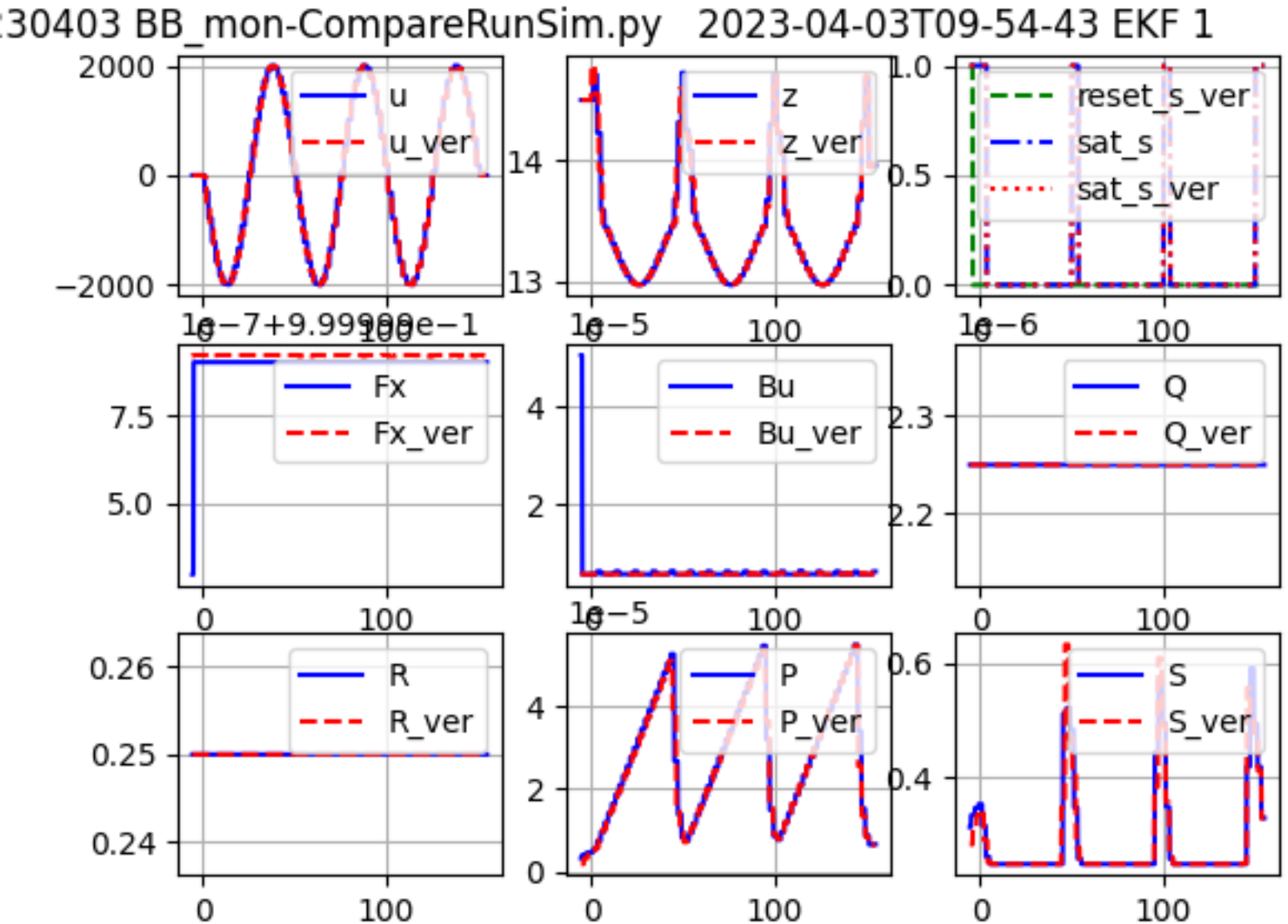

30403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 DOM 1
ib_charge
ib_charge_ver
ib_diff
ib_diff_f
ib_diff_thr
ib_quiet
ib_quiet_thr
dscn_flt-4
dscn_fa+4
vb
vb_ver
voc_stat
voc_stat_ver
vsat
vsat_ver
voc_soc+0.1
voc+0.1
e_wrap
e_wrap_ver
e_wrap_filt
e_wrap_filt_ver
ewh_thr
ewl_thr
wrap_hi_flt+4
wrap_lo_flt+4
wrap_hi_fa+2
wrap_lo_fa+2
wrap_vb_fa+2
cc_diff_fa
cc_diff
cc_diff_thr
mod-255.0
mod_ver-255.0
sat+2
sat_ver+2
bms_off+4
bms_off_ver+4
bms_off_s+4
ib_diff_flt+2
ib_diff_fa+2
vb_flt
vb_fa
tb_flt
tb_fa
ib_sel_stat-2

A20230403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 DOM 2




A20230403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 DOM 3
1.00
0.98
0.96
0.94
0.92
0
50
100
150
soc
soc_ver
soc_ekf
soc_ekf_ver
soc_s
soc_s_ver


30403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 DOM 4
soc
soc_ver
soc_s_ver
soc
soc_ekf_ver
vb
vb_hdwe
vb_ver
vb_s_ver
vb
vb_hdwe
vb_ver
vb_s_ver
1.00
0.98
0.96
0.94
0.92
30
20
10
0
−10
0
100
0
100
0.95
1.00


230403 BB_mon-CompareRunSim.py 2023-04-03T09-54-43 EKF 1
u
u_ver
z
z_ver
reset_s_ver
sat_s
sat_s_ver
Fx
Fx_ver
Bu
Bu_ver
Q
Q_ver
R
R_ver
P
P_ver
S
S_ver