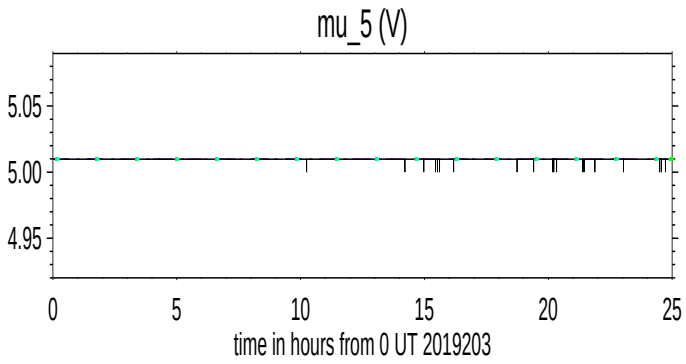
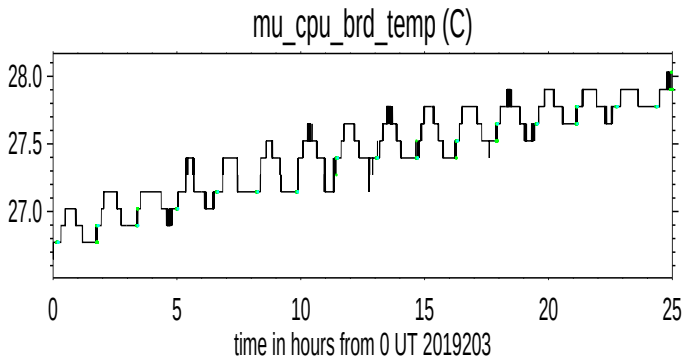
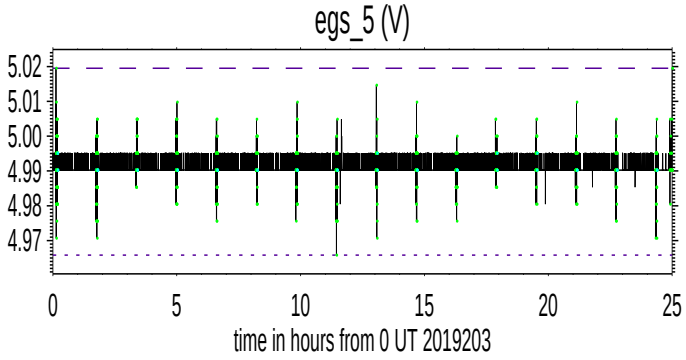
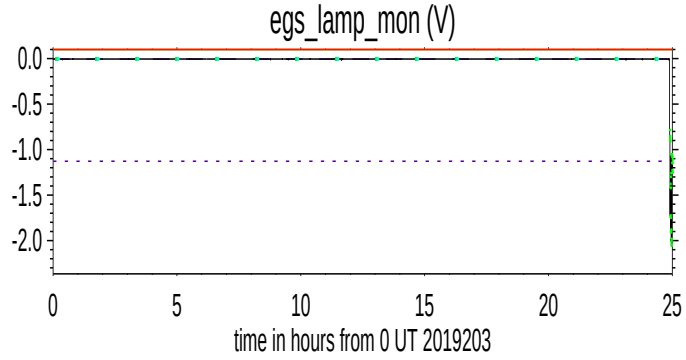
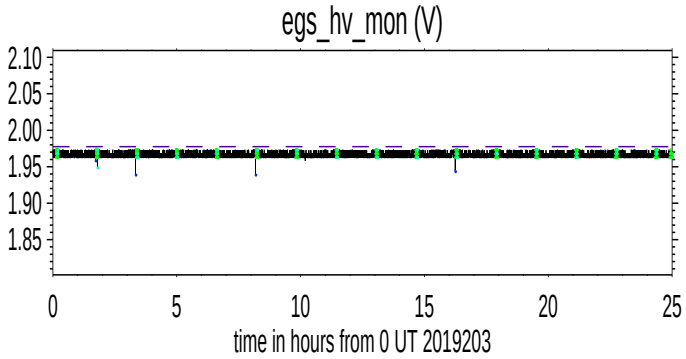
```
Information for      2019203
20:15:12.002: see_stat[1]: 13 internal error
```

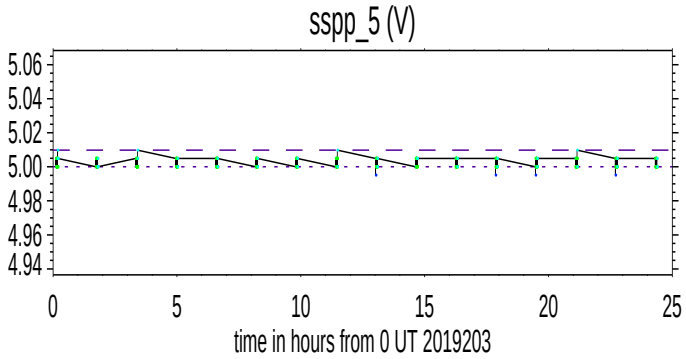

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019203

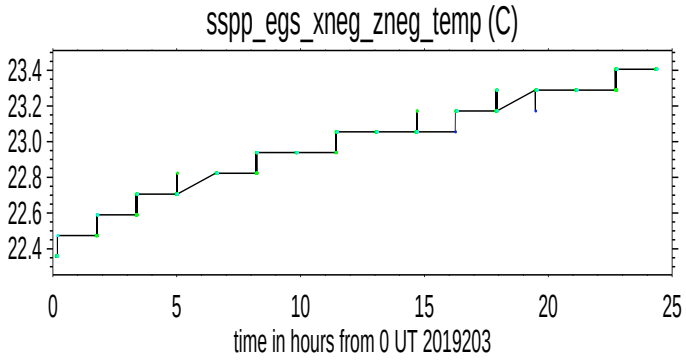

mu_cpu_brd_temp (C)
28.0
27.5
27.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

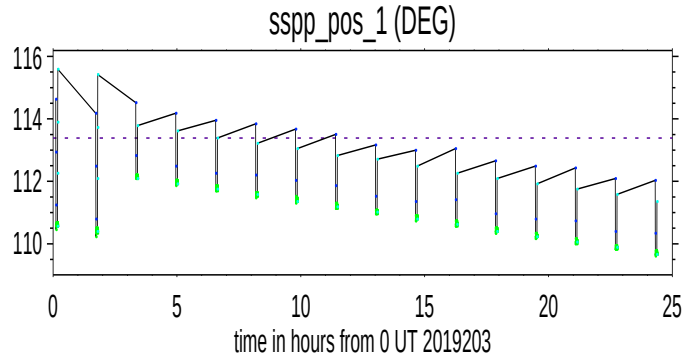

egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
0
5
10
15
20
25
time in hours from 0 UT 2019203

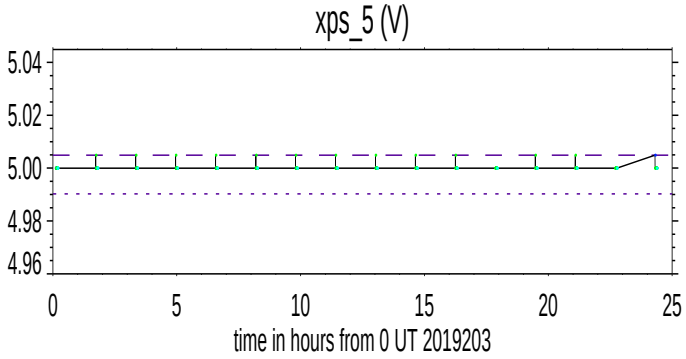

egs_lamp_mon (V)
0.0
-0.5
-1.0
-1.5
-2.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

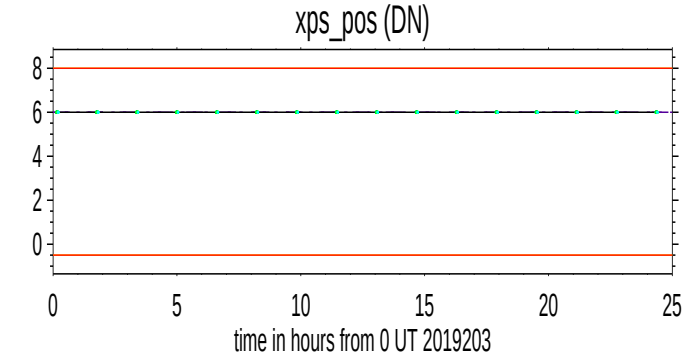

egs_hv_mon (V)
2.10
2.05
2.00
1.95
1.90
1.85
0
5
10
15
20
25
time in hours from 0 UT 2019203

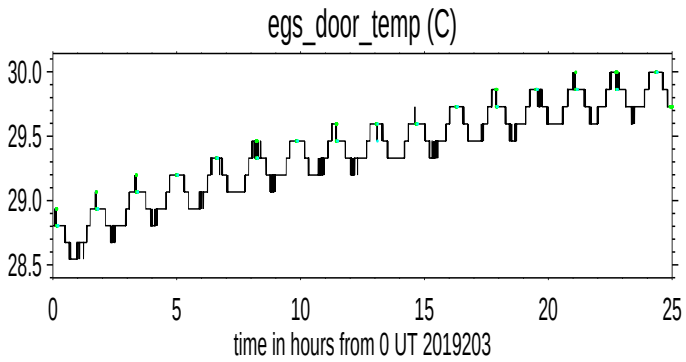

sspp_5 (V)
5.06
5.04
5.02
5.00
4.98
4.96
4.94
0
5
10
15
20
25
time in hours from 0 UT 2019203

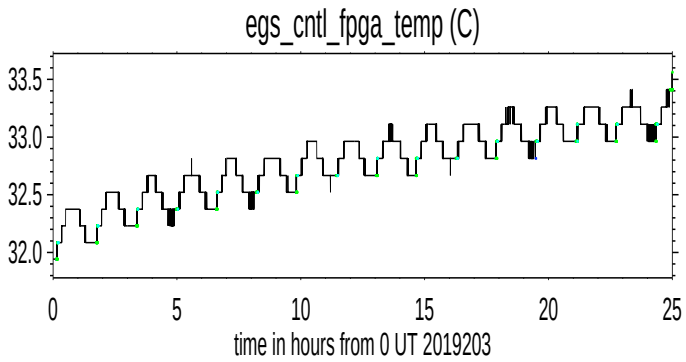

sspp_egs_xneg_zneg_temp (C)
23.4
23.2
23.0
22.8
22.6
22.4
0
5
10
15
20
25
time in hours from 0 UT 2019203

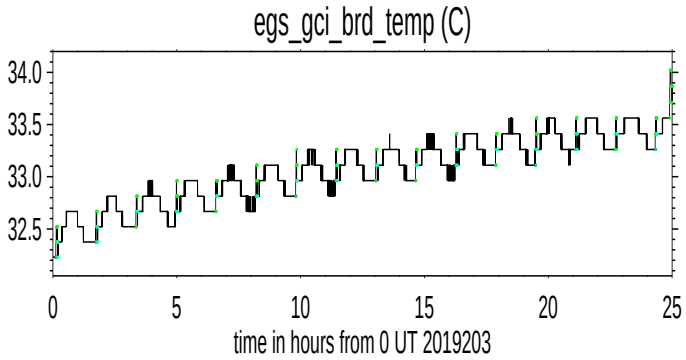

sspp_pos_1 (DEG)
116
114
112
110
0
5
10
15
20
25
time in hours from 0 UT 2019203

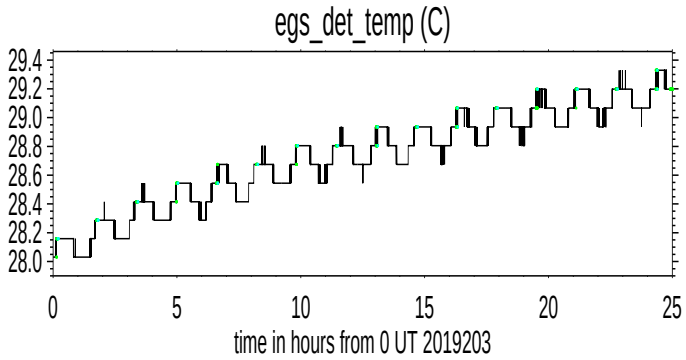

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019203


xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2019203


egs_door_temp (C)
30.0
29.5
29.0
28.5
0
5
10
15
20
25
time in hours from 0 UT 2019203


egs_cntl_fpga_temp (C)
33.5
33.0
32.5
32.0
0
5
10
15
20
25
time in hours from 0 UT 2019203


egs_gci_brd_temp (C)
34.0
33.5
33.0
32.5
0
5
10
15
20
25
time in hours from 0 UT 2019203


egs_det_temp (C)
29.4
29.2
29.0
28.8
28.6
28.4
28.2
28.0
0
5
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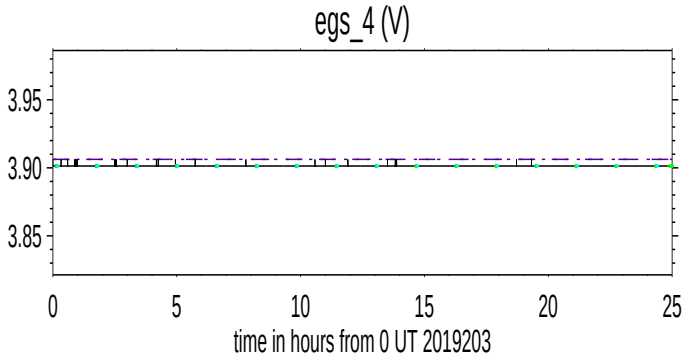
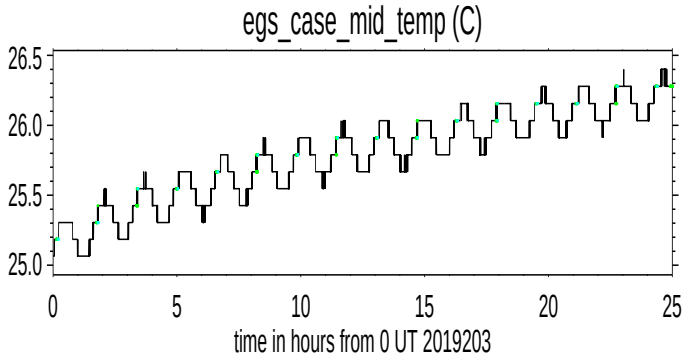
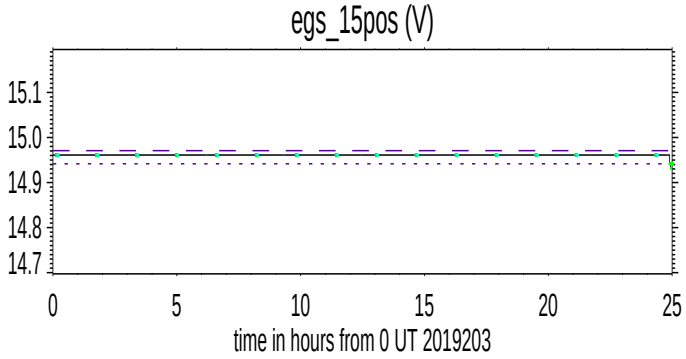
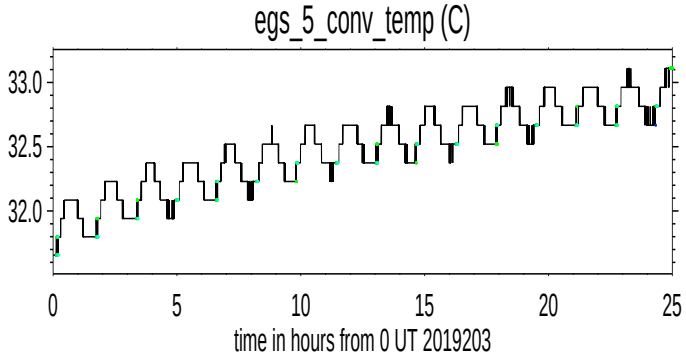
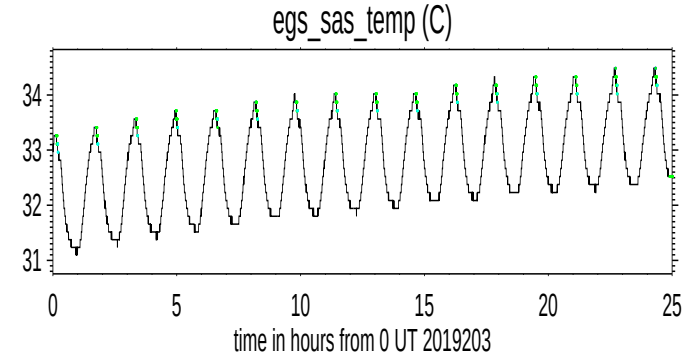
15
20
25
time in hours from 0 UT 2019203

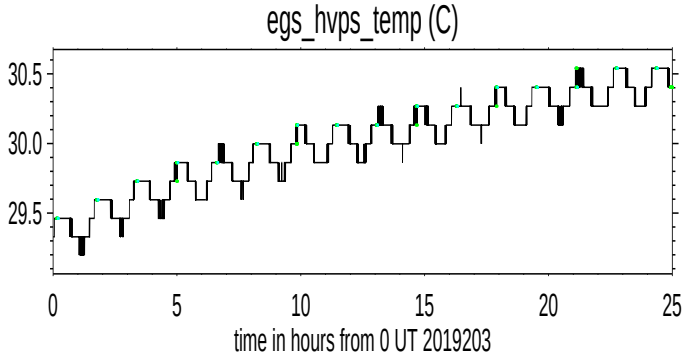

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019203

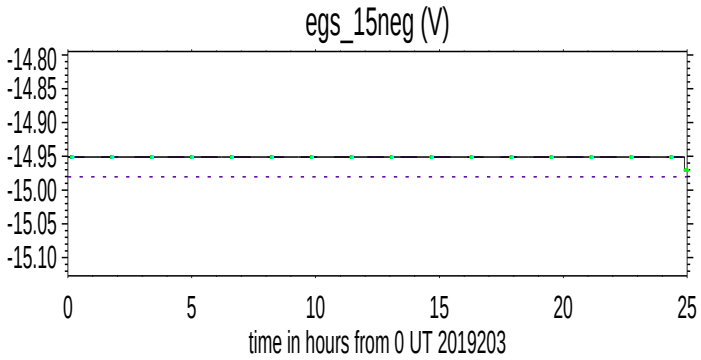

egs_case_mid_temp (C)
26.5
26.0
25.5
25.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

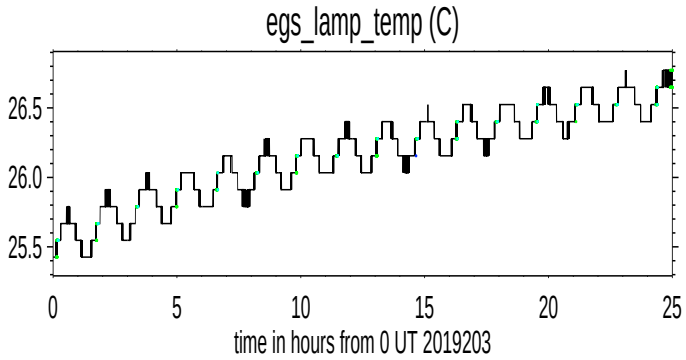

egs_15pos (V)
15.1
15.0
14.9
14.8
14.7
0
5
10
15
20
25
time in hours from 0 UT 2019203

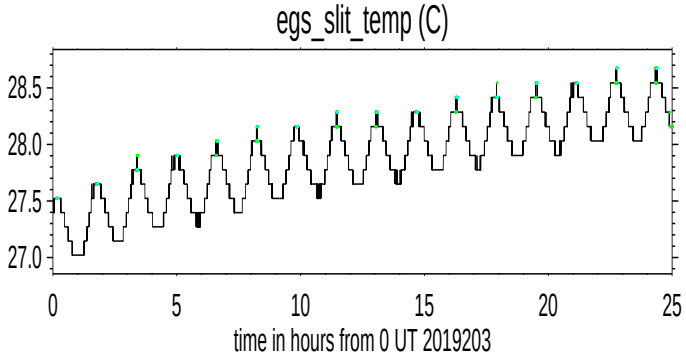

egs_5_conv_temp (C)
33.0
32.5
32.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

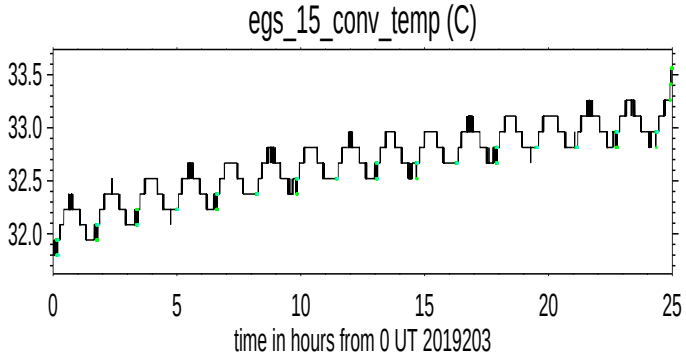

egs_sas_temp (C)
34
33
32
31
0
5
10
15
20
25
time in hours from 0 UT 2019203

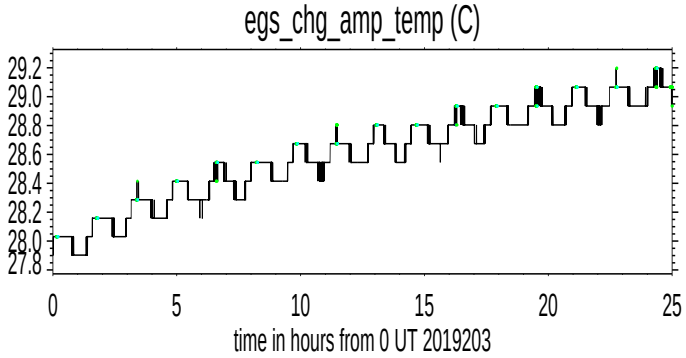

egs_hvps_temp (C)
30.5
30.0
29.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

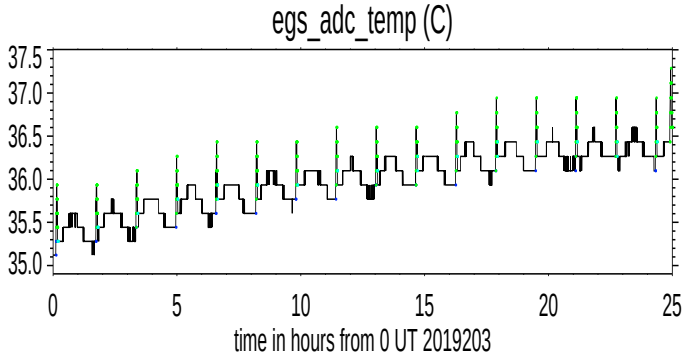

egs_15neg (V)
-14.80
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0 5 10 15 20 25
time in hours from 0 UT 2019203

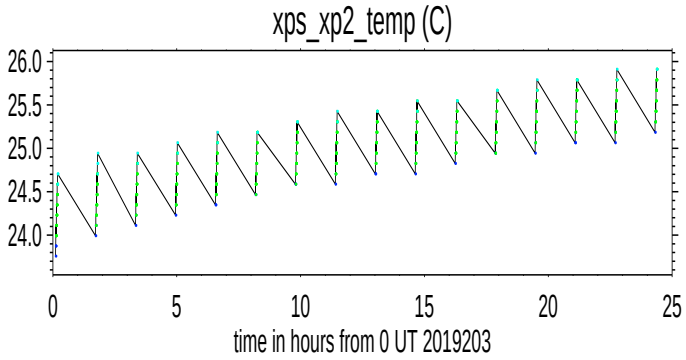

egs_lamp_temp (C)
26.5
26.0
25.5
0 5 10 15 20 25
time in hours from 0 UT 2019203

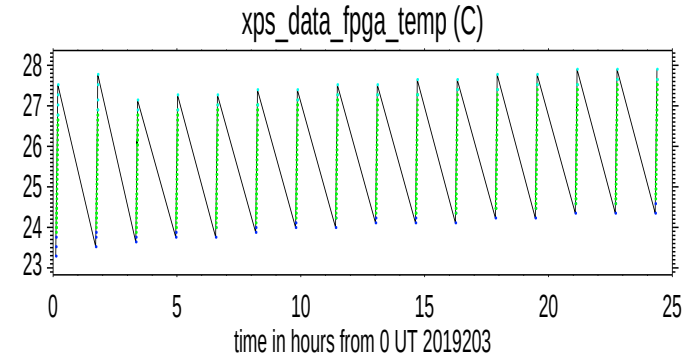

egs_slit_temp (C)
28.5
28.0
27.5
27.0
0 5 10 15 20 25
time in hours from 0 UT 2019203

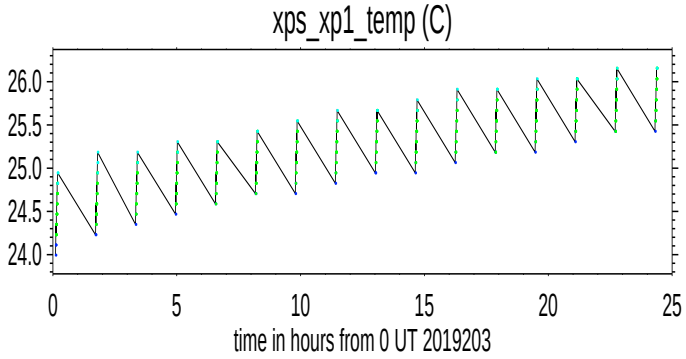

egs_15_conv_temp (C)
33.5
33.0
32.5
32.0
0 5 10 15 20 25
time in hours from 0 UT 2019203

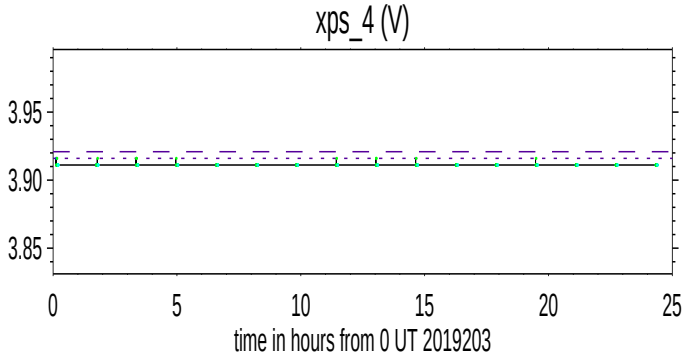

egs_chg_amp_temp (C)
29.2
29.0
28.8
28.6
28.4
28.2
28.0
27.8
0 5 10 15 20 25
time in hours from 0 UT 2019203

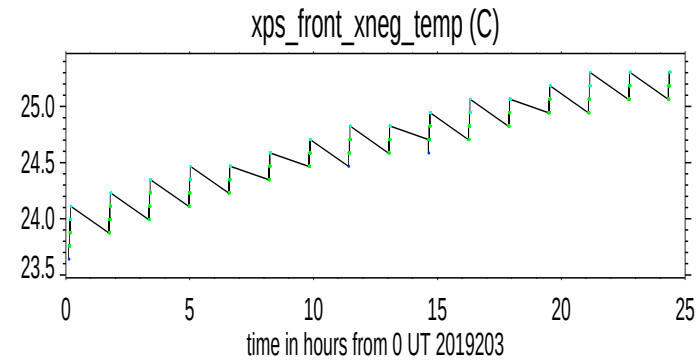

egs_adc_temp (C)
37.5
37.0
36.5
36.0
35.5
35.0
0 5 10 15 20 25
time in hours from 0 UT 2019203

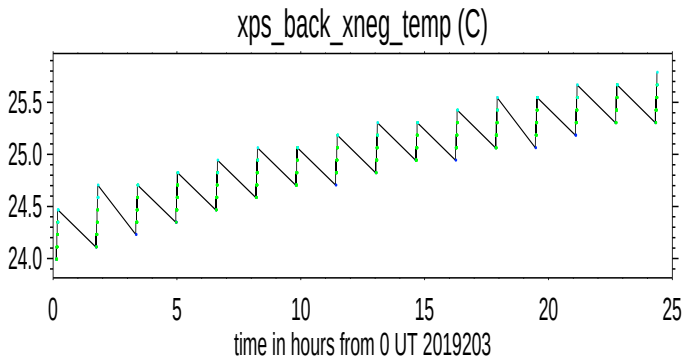

xps_xp2_temp (C)
26.0
25.5
25.0
24.5
24.0
0 5 10 15 20 25
time in hours from 0 UT 2019203

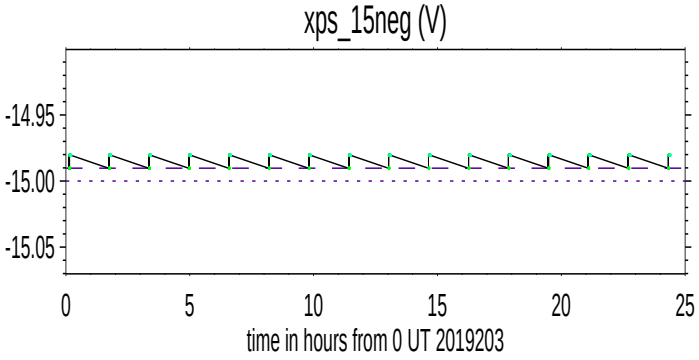

xps_data_fpga_temp (C)
28
27
26
25
24
23
0 5 10 15 20 25
time in hours from 0 UT 2019203

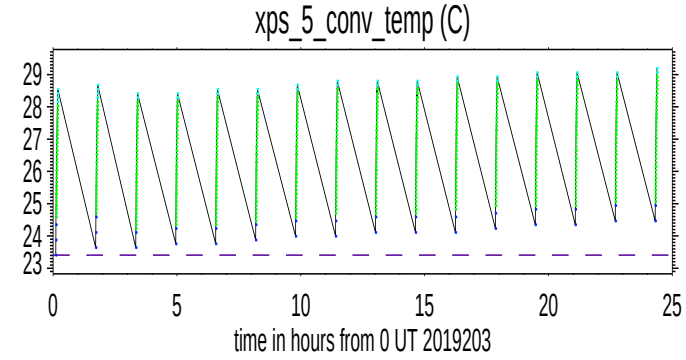

xps_xp1_temp (C)
26.0
25.5
25.0
24.5
24.0
0 5 10 15 20 25
time in hours from 0 UT 2019203

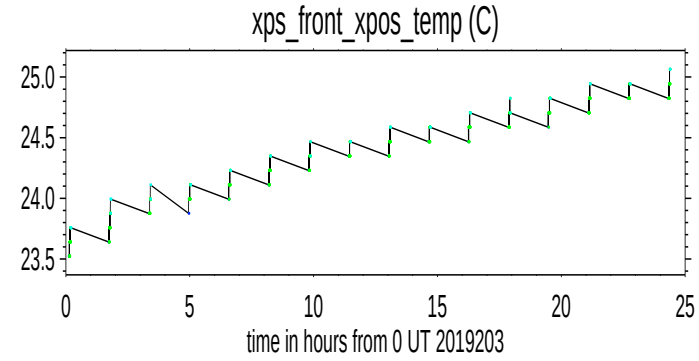

xps_4 (V)
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2019203

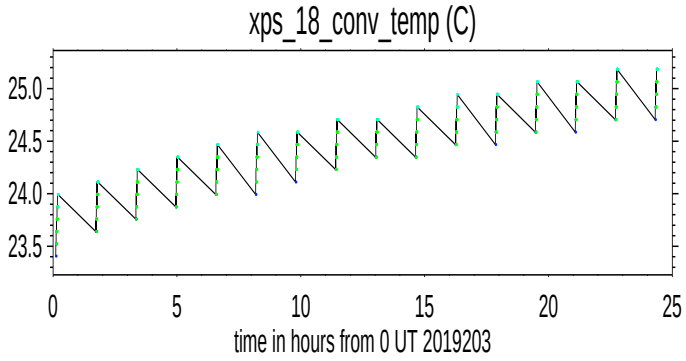

xps_front_xneg_temp (C)
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203


xps_back_xneg_temp (C)
25.5
25.0
24.5
24.0
0
5
10
15
20
25
time in hours from 0 UT 2019203


xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2019203


xps_5_conv_temp (C)
29
28
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203


xps_front_xpos_temp (C)
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203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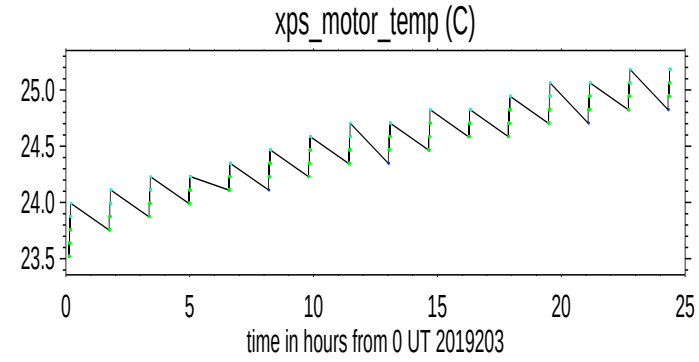
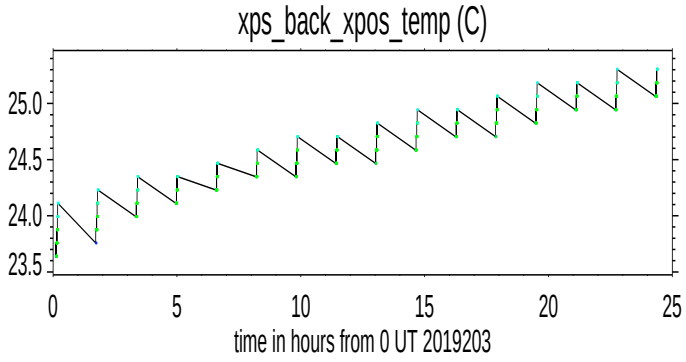
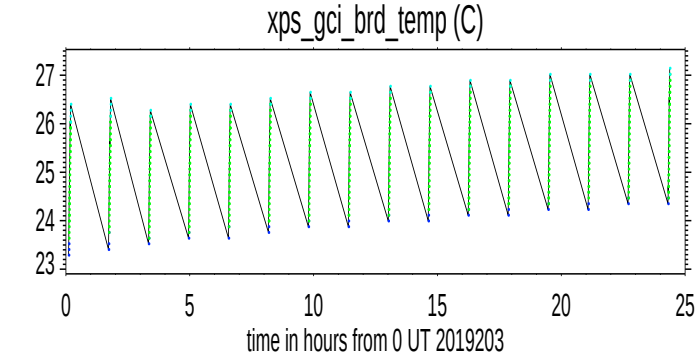
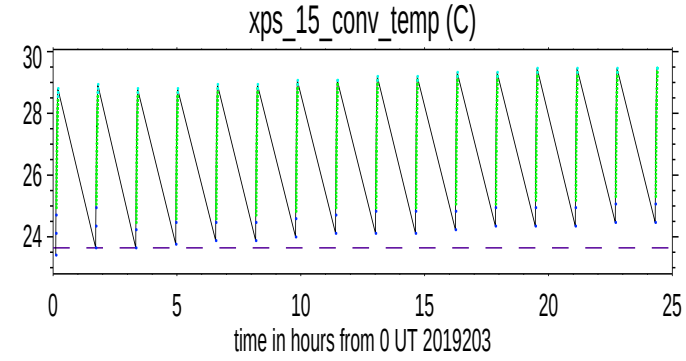
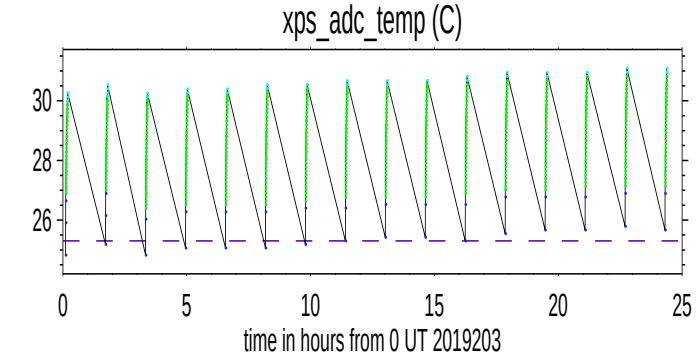
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

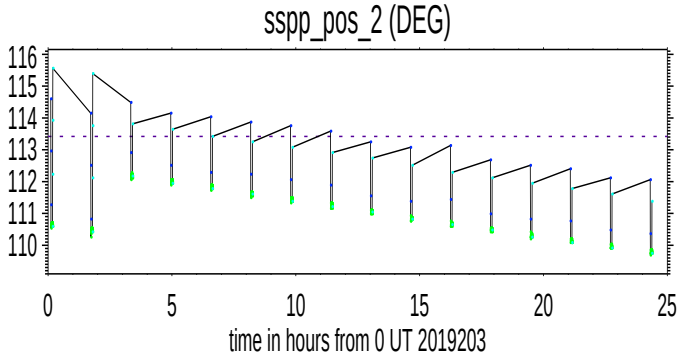

xps_motor_temp (C)
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

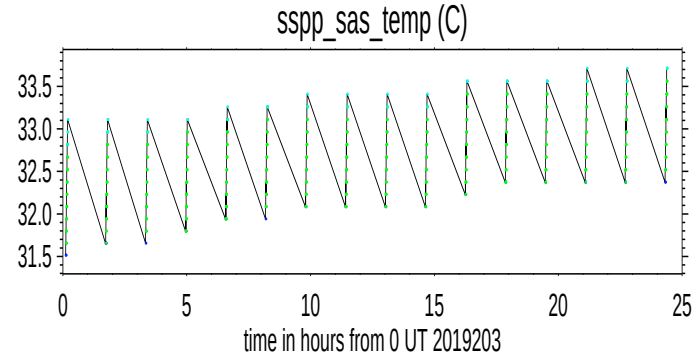

xps_back_xpos_temp (C)
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

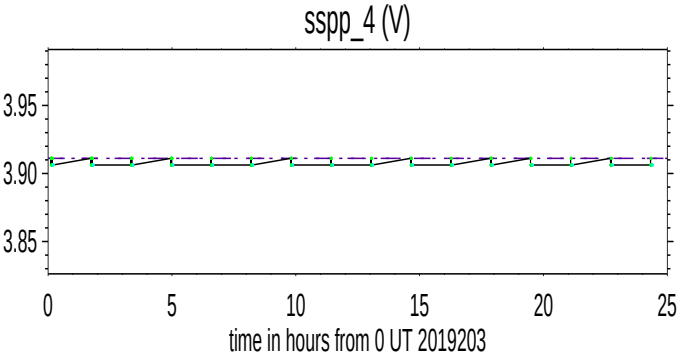

xps_gci_brd_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

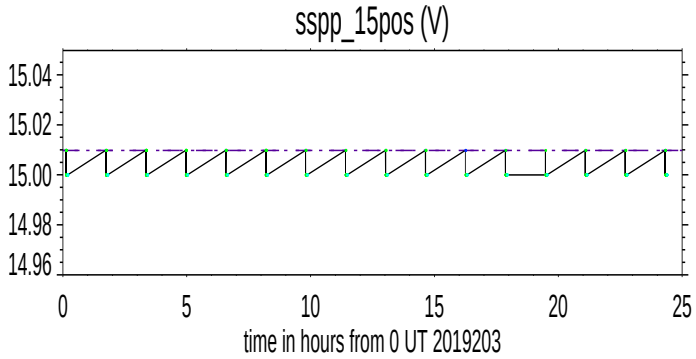

xps_15_conv_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019203

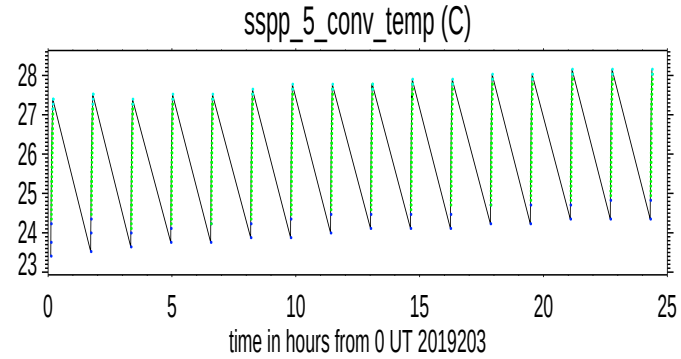

xps_adc_temp (C)
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019203

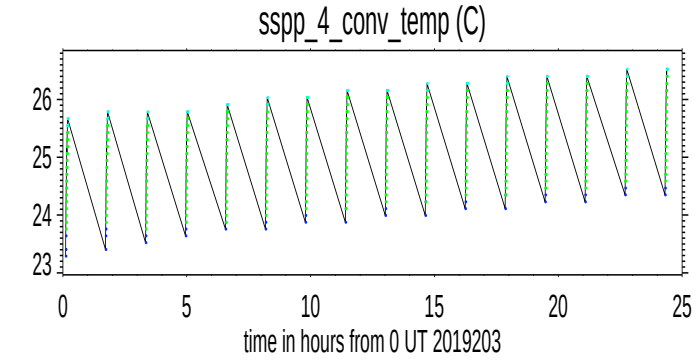

sspp_pos_2 (DEG)
116
115
114
113
112
111
110
0
5
10
15
20
25
time in hours from 0 UT 2019203

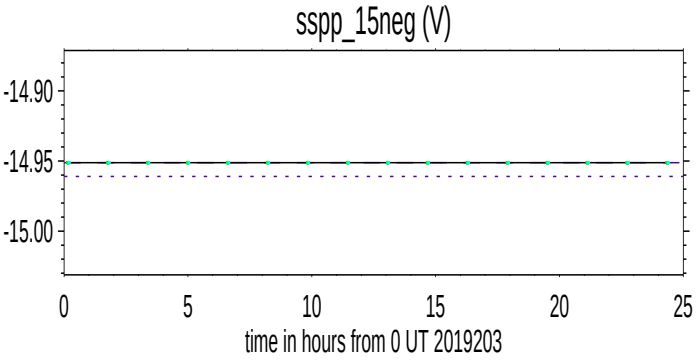

sspp_sas_temp (C)
33.5
33.0
32.5
32.0
31.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

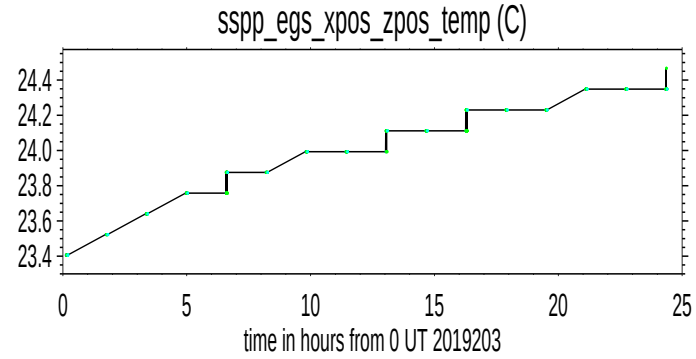

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019203

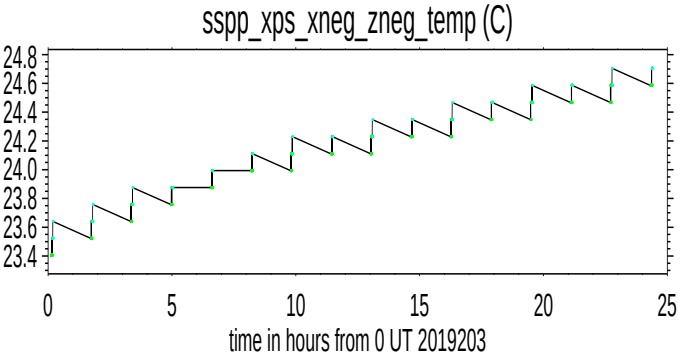

sspp_15pos (V)
15.04
15.02
15.00
14.98
14.96
0
5
10
15
20
25
time in hours from 0 UT 2019203

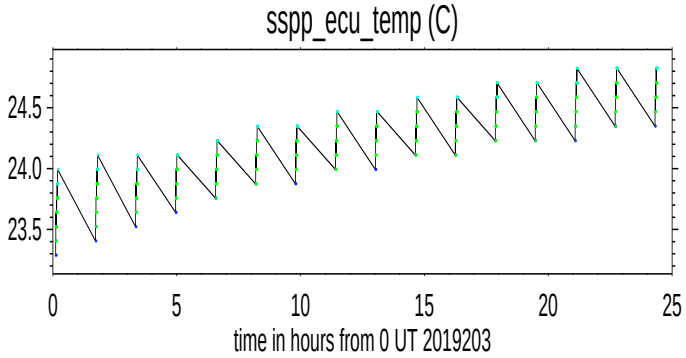

sspp_5_conv_temp (C)
28
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

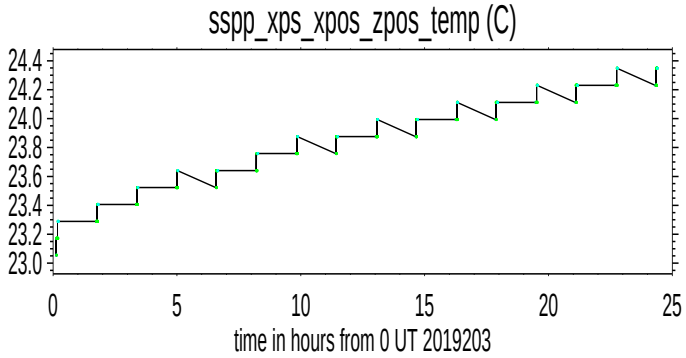

sspp_4_conv_temp (C)
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

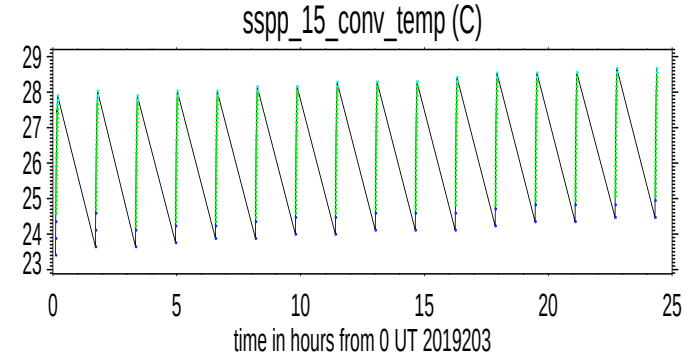

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019203

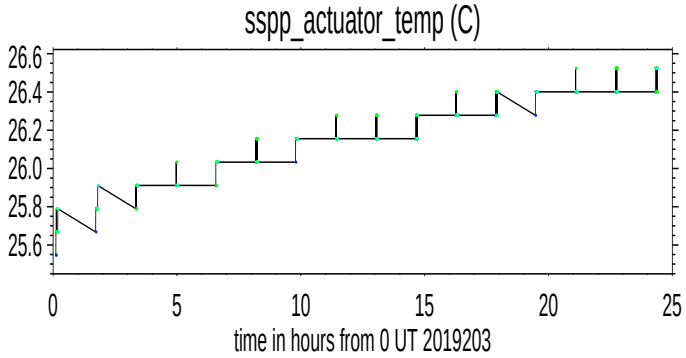

sspp_egs_xpos_zpos_temp (C)
24.4
24.2
24.0
23.8
23.6
23.4
0
5
10
15
20
25
time in hours from 0 UT 2019203

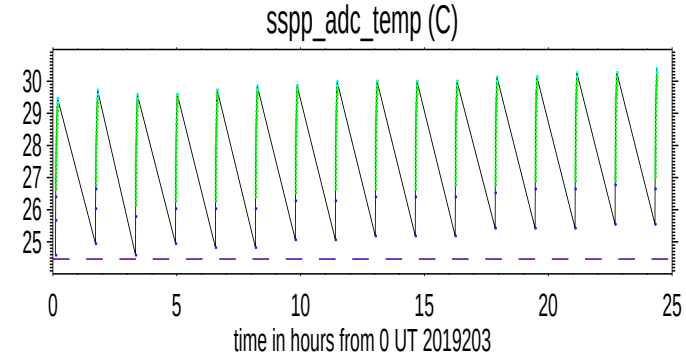

sspp_xps_xneg_zneg_temp (C)
24.8
24.6
24.4
24.2
24.0
23.8
23.6
23.4
0
5
10
15
20
25
time in hours from 0 UT 2019203

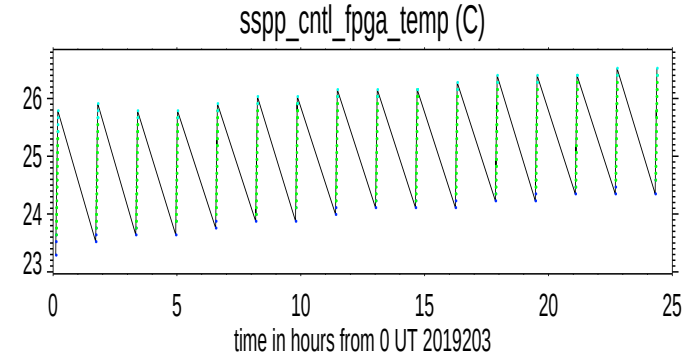

sspp_ecu_temp (C)
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

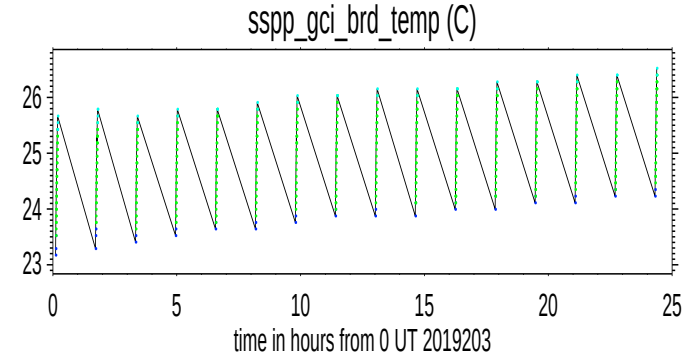

sspp_xps_xpos_zpos_temp (C)
24.4
24.2
24.0
23.8
23.6
23.4
23.2
23.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

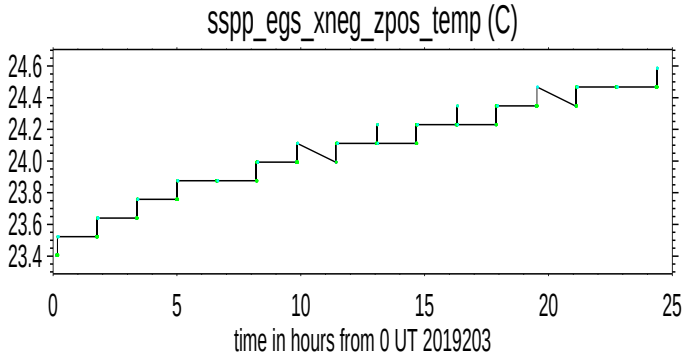

sspp_15_conv_temp (C)
29
28
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

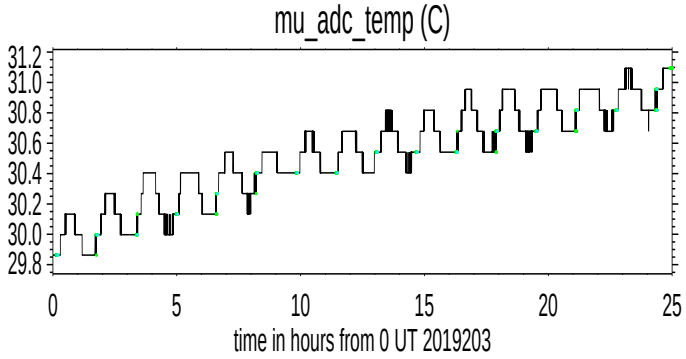

sspp_actuator_temp (C)
26.6
26.4
26.2
26.0
25.8
25.6
0
5
10
15
20
25
time in hours from 0 UT 2019203

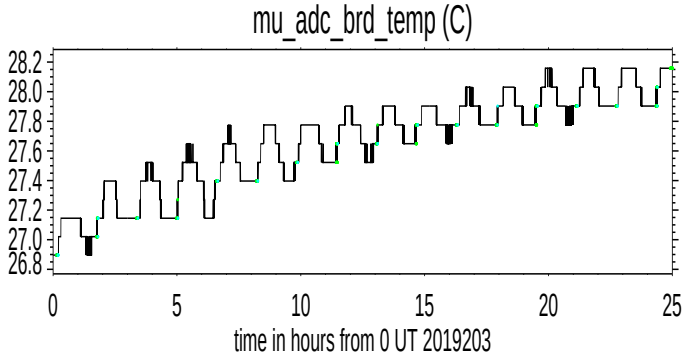

sspp_adc_temp (C)
30
29
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2019203

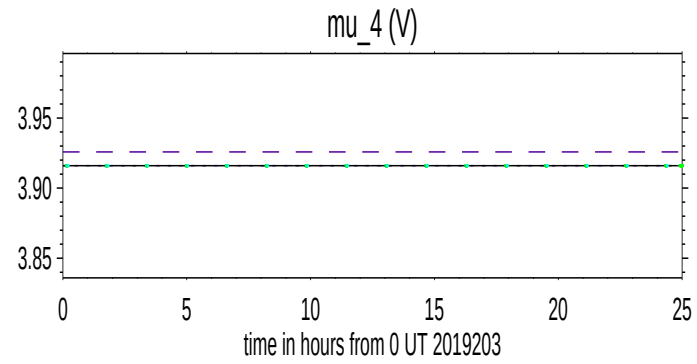

sspp_cntl_fpga_temp (C)
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

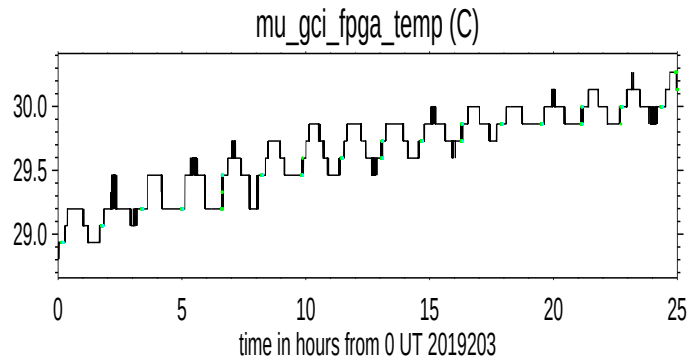

sspp_gci_brd_temp (C)
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2019203

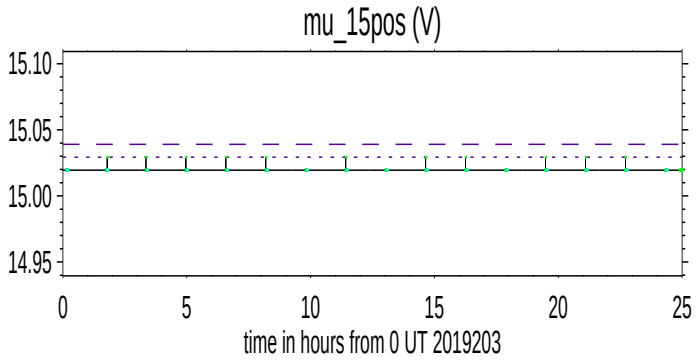

sspp_egs_xneg_zpos_temp (C)
24.6
24.4
24.2
24.0
23.8
23.6
23.4
0
5
10
15
20
25
time in hours from 0 UT 2019203

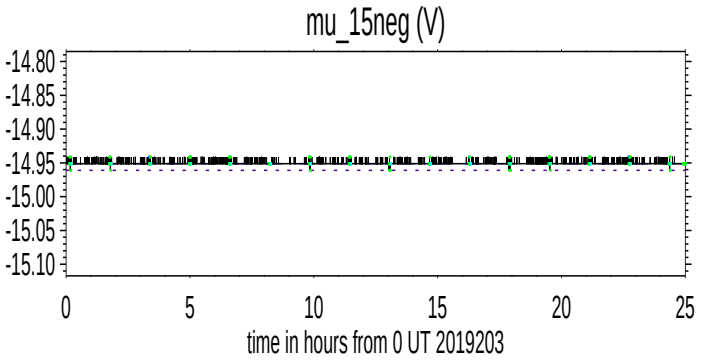

mu_adc_temp (C)
31.2
31.0
30.8
30.6
30.4
30.2
30.0
29.8
0
5
10
15
20
25
time in hours from 0 UT 2019203

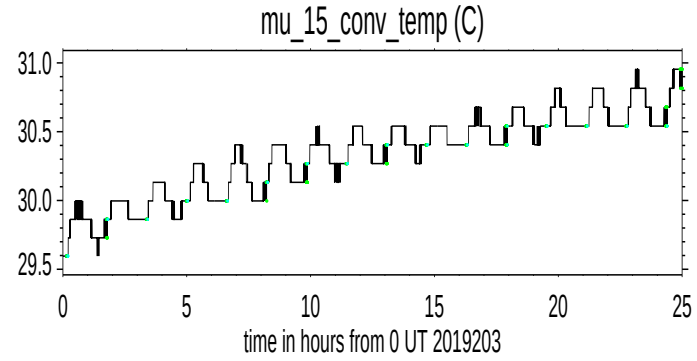

mu_adc_brd_temp (C)
28.2
28.0
27.8
27.6
27.4
27.2
27.0
26.8
0
5
10
15
20
25
time in hours from 0 UT 2019203

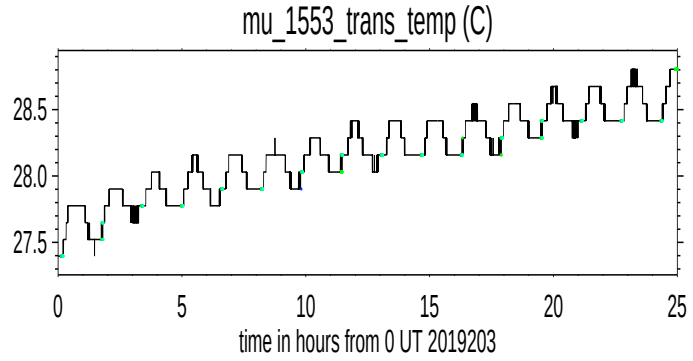

mu_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019203

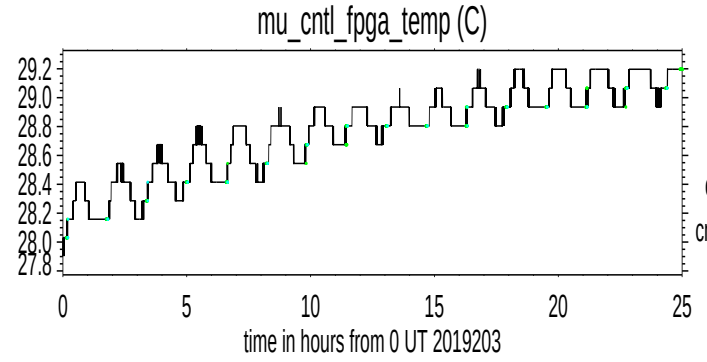

mu_gci_fpga_temp (C)
30.0
29.5
29.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

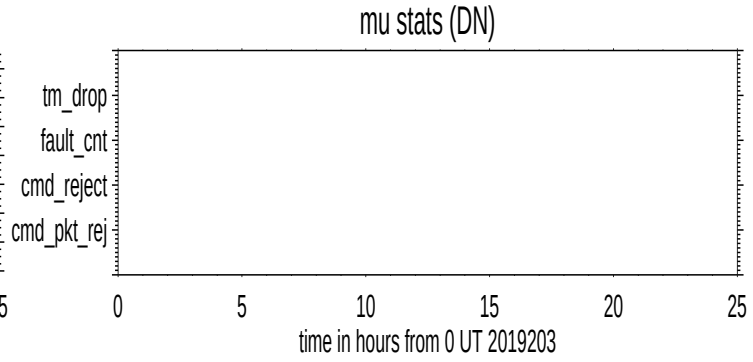

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2019203

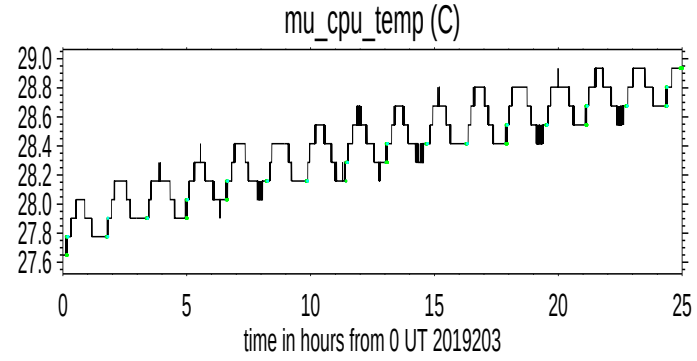

mu_15neg (V)
-14.80
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2019203

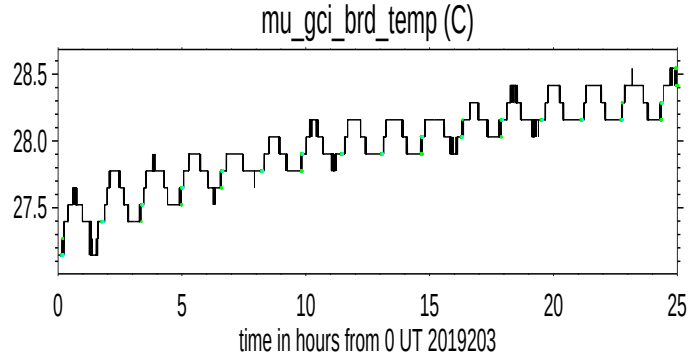

mu_15_conv_temp (C)
31.0
30.5
30.0
29.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

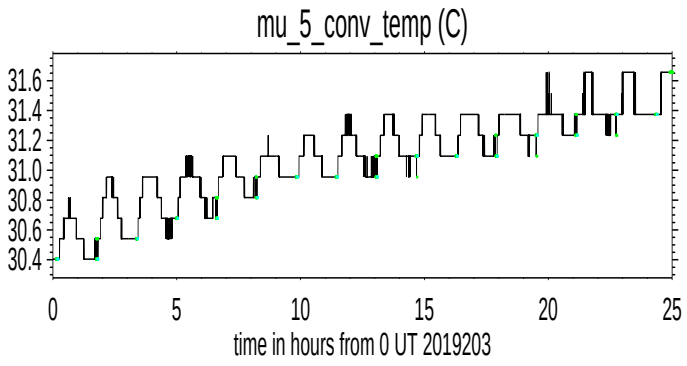

mu_1553_trans_temp (C)
28.5
28.0
27.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

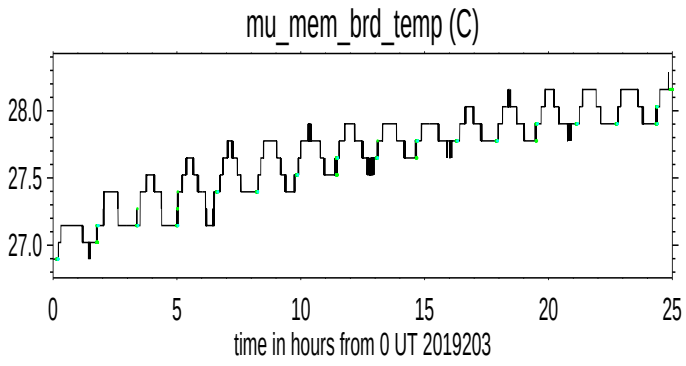

mu_cntl_fpga_temp (C)
29.2
29.0
28.8
28.6
28.4
28.2
28.0
27.8
0
5
10
15
20
25
time in hours from 0 UT 2019203

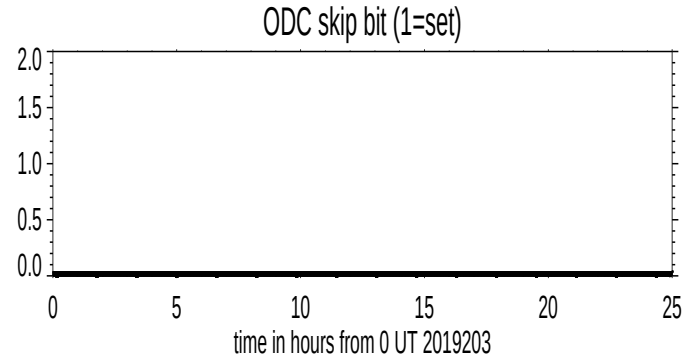

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2019203

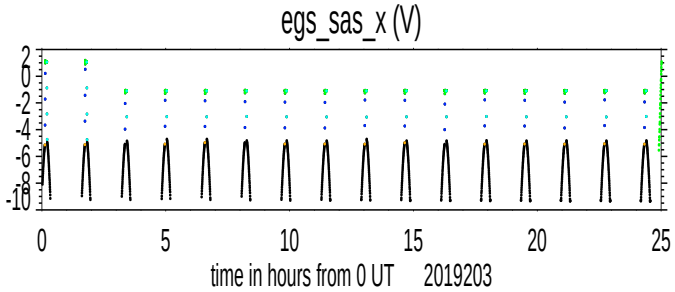

mu_cpu_temp (C)
29.0
28.8
28.6
28.4
28.2
28.0
27.8
27.6
0
5
10
15
20
25
time in hours from 0 UT 2019203

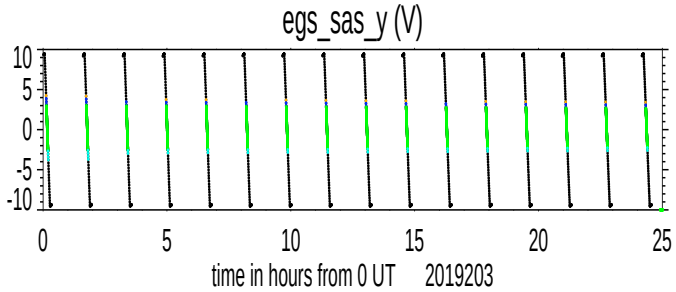

mu_gci_brd_temp (C)
28.5
28.0
27.5
0
5
10
15
20
25
time in hours from 0 UT 2019203

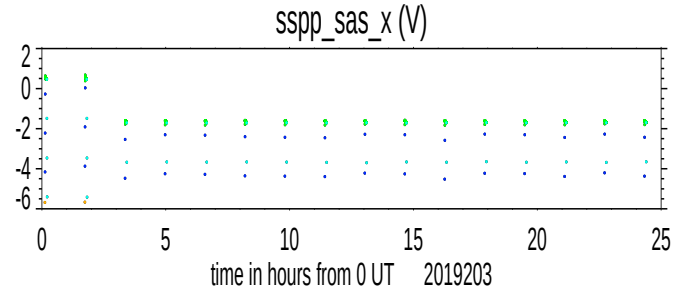

mu_5_conv_temp (C)
31.6
31.4
31.2
31.0
30.8
30.6
30.4
0
5
10
15
20
25
time in hours from 0 UT 2019203

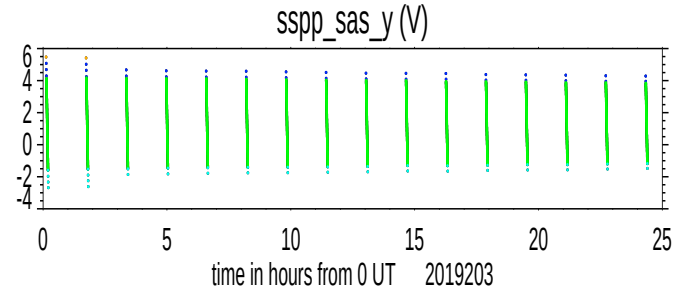

mu_mem_brd_temp (C)
28.0
27.5
27.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

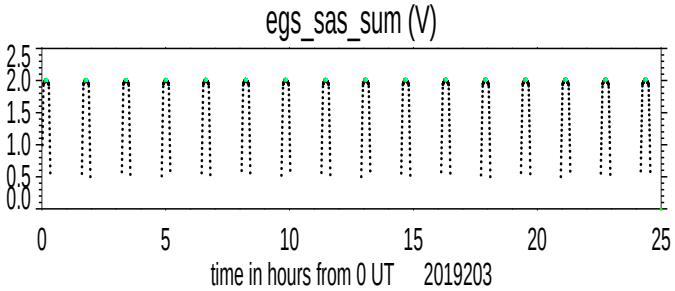

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019203

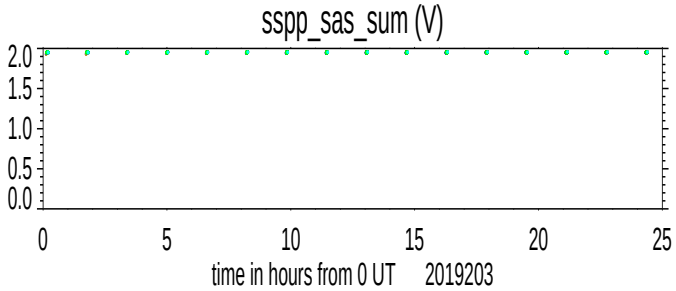

egs_sas_x (V)
time in hours from 0 UT 2019203

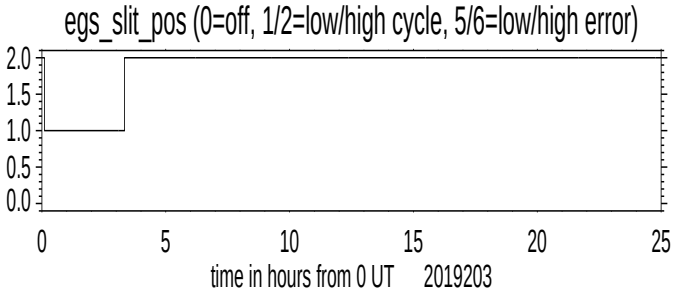

egs_sas_y (V)
time in hours from 0 UT 2019203

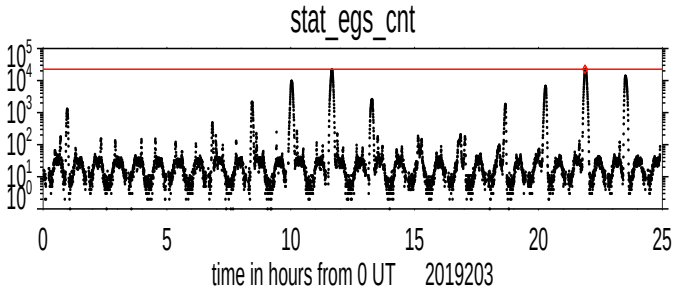

sspp_sas_x (V)
time in hours from 0 UT 2019203

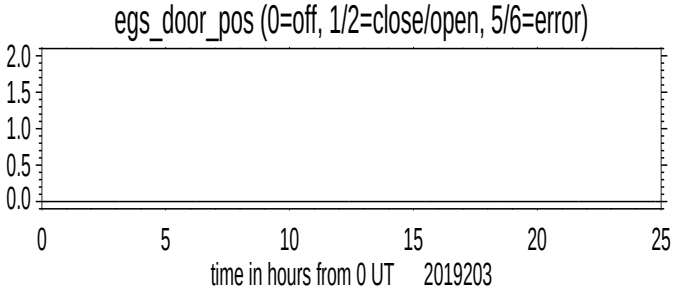

sspp_sas_y (V)
time in hours from 0 UT 2019203

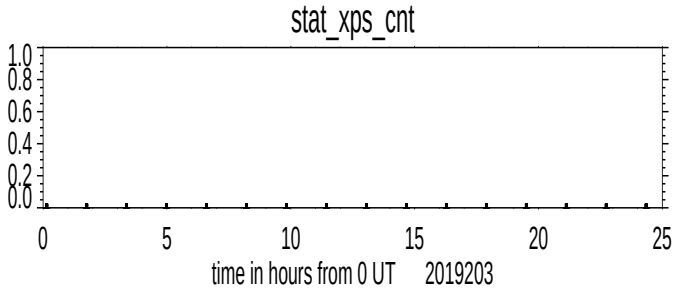

egs_sas_sum (V)
time in hours from 0 UT 2019203

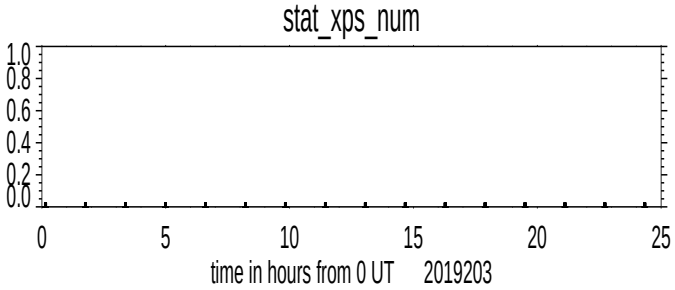

sspp_sas_sum (V)
time in hours from 0 UT 2019203

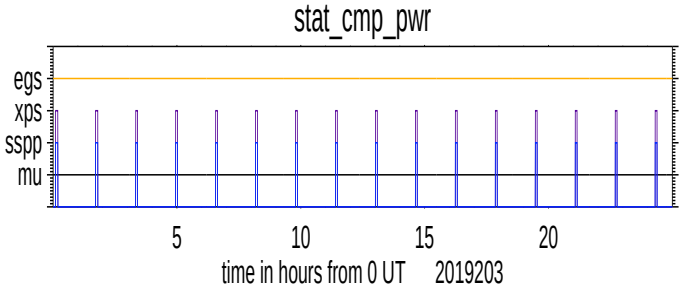

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2019203


stat_egs_cnt
time in hours from 0 UT 2019203

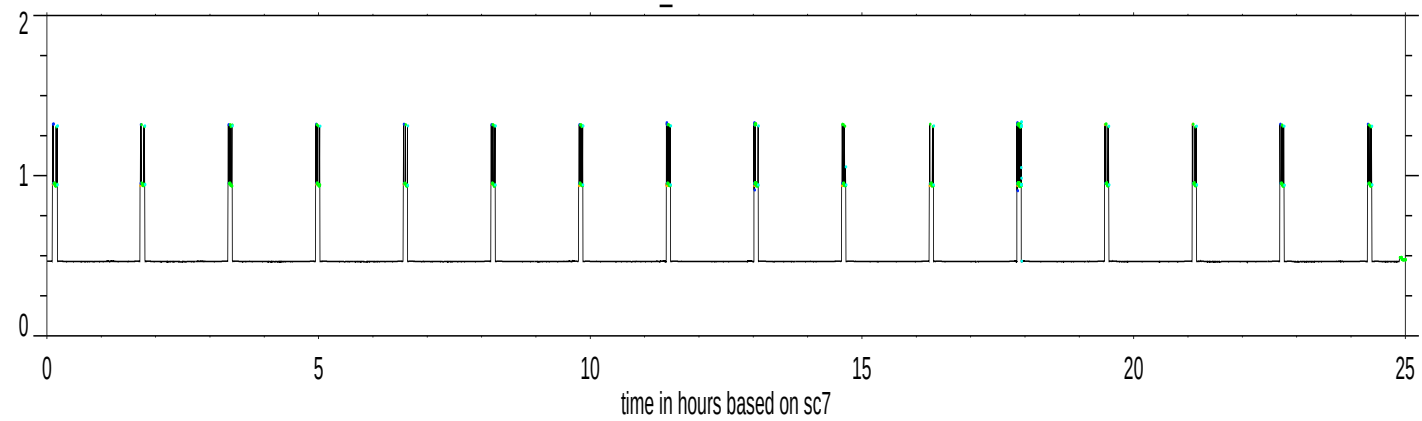

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2019203


stat_xps_cnt
time in hours from 0 UT 2019203

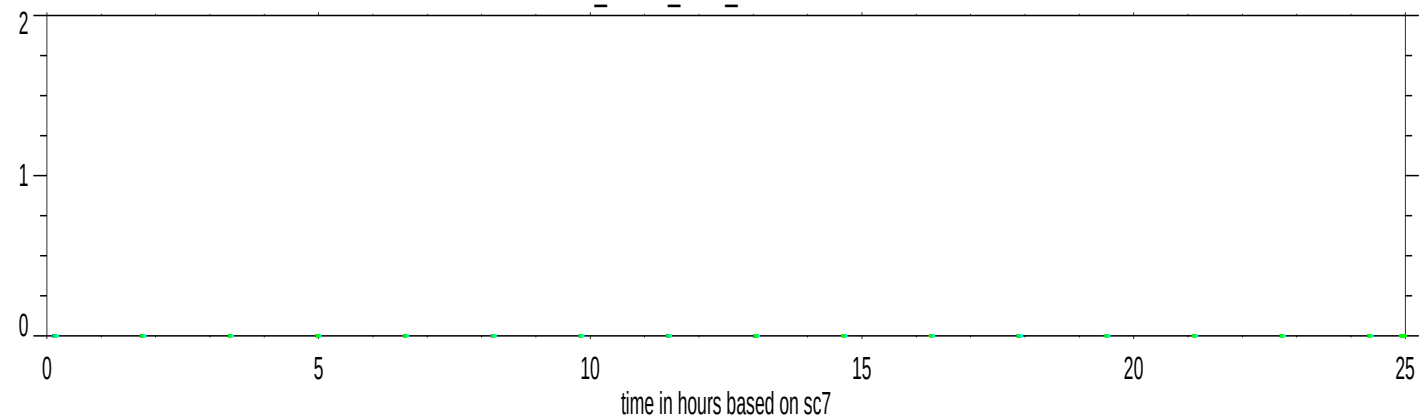

stat_xps_num
time in hours from 0 UT 2019203


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019203

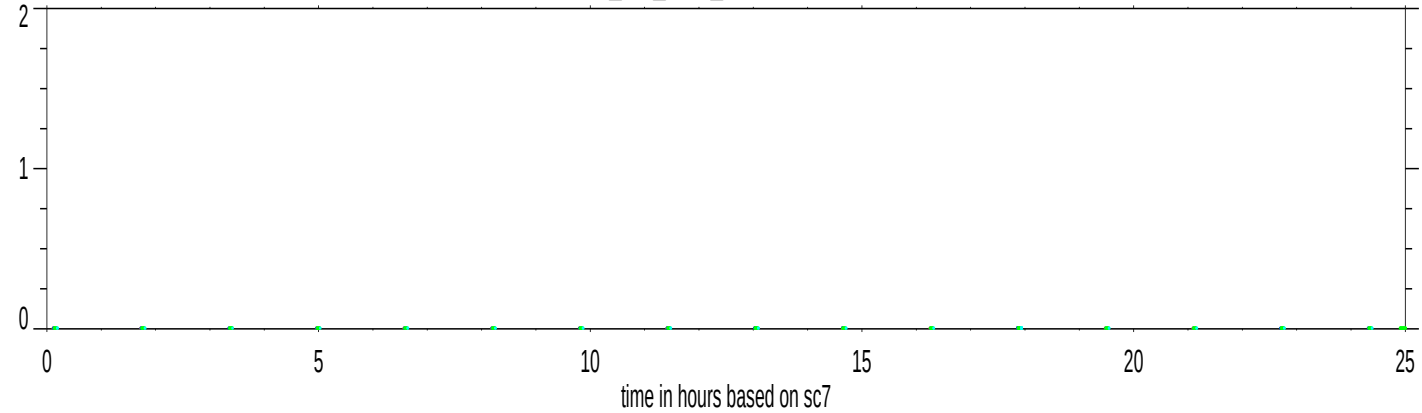
SEE_CUR 2019203



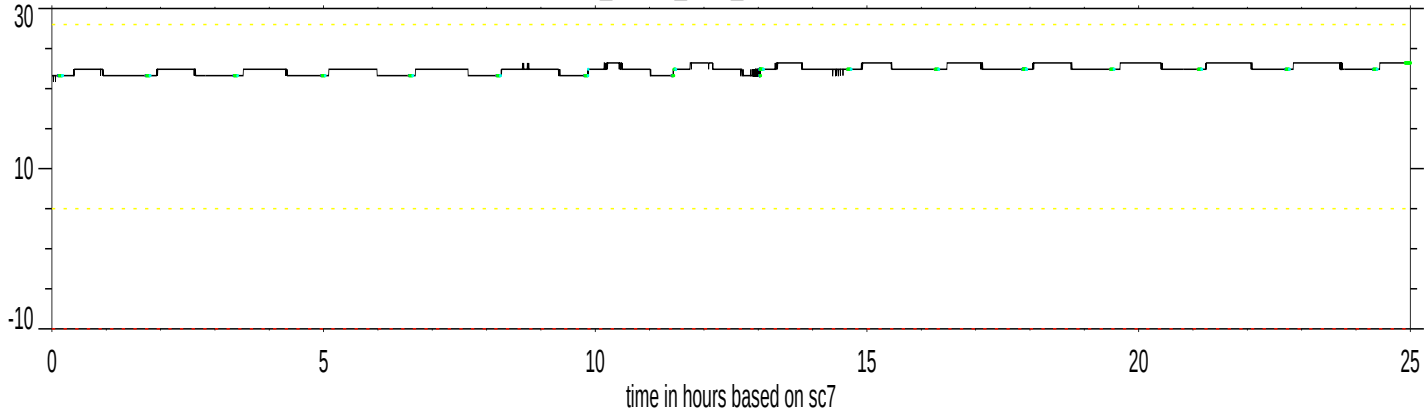
SEE_SURV_HTR_CUR 2019203



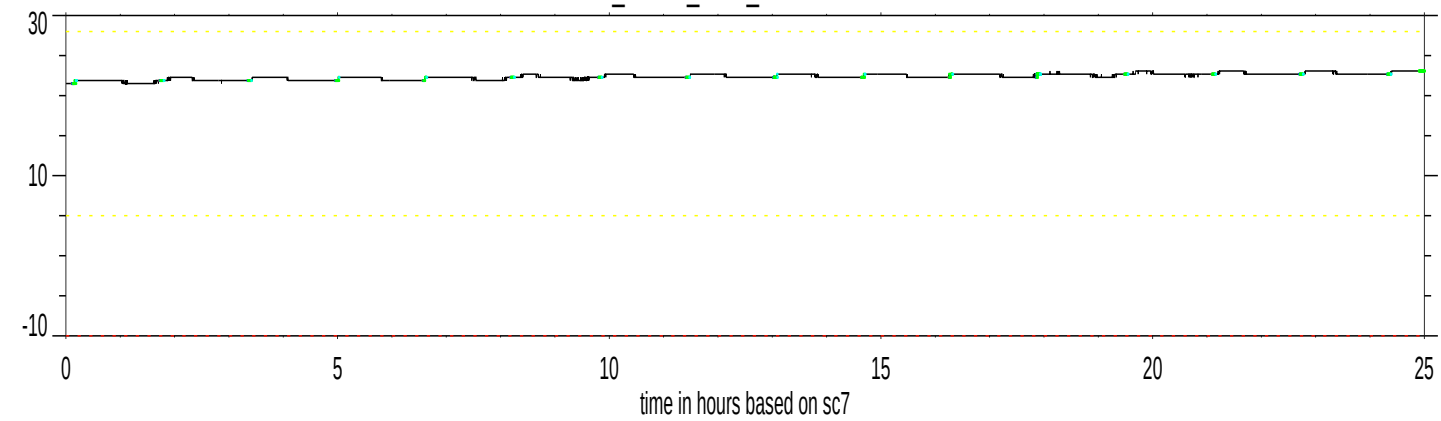
SEE_OP_HTR_CUR 2019203



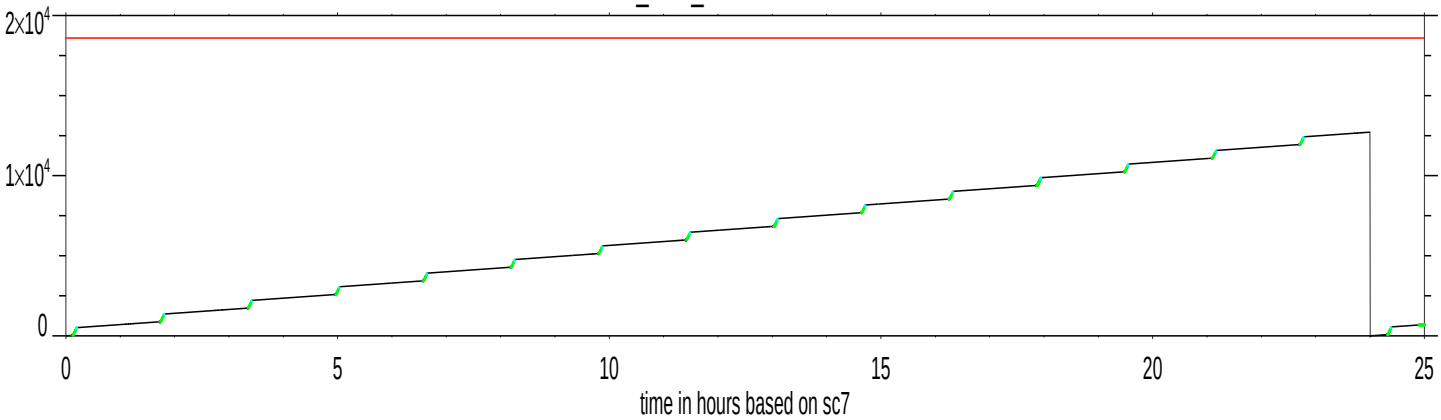
SSPP_BHND_XPS_TEMP 2019203



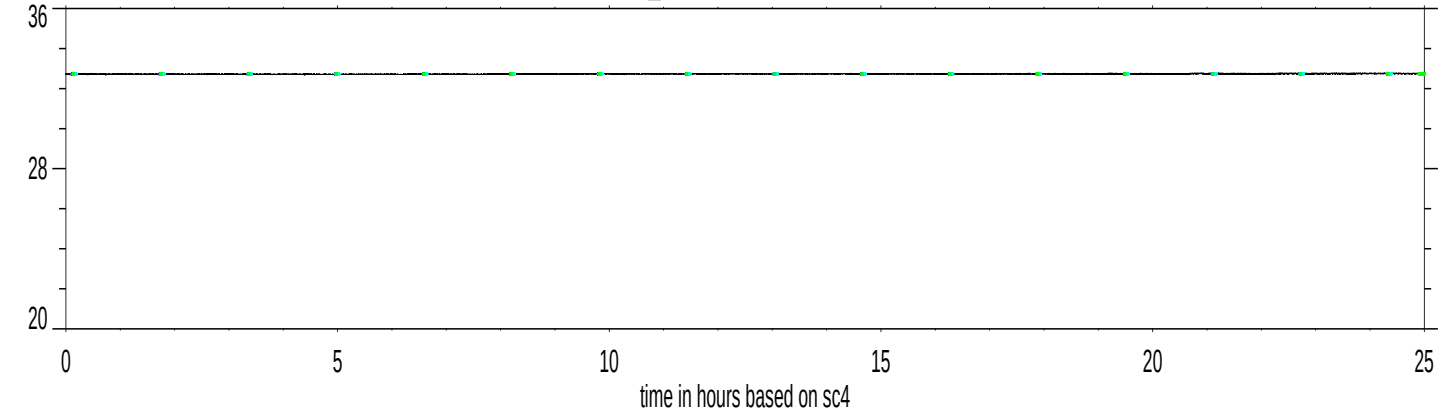
SSPP_BHND_MTR_TEMP 2019203



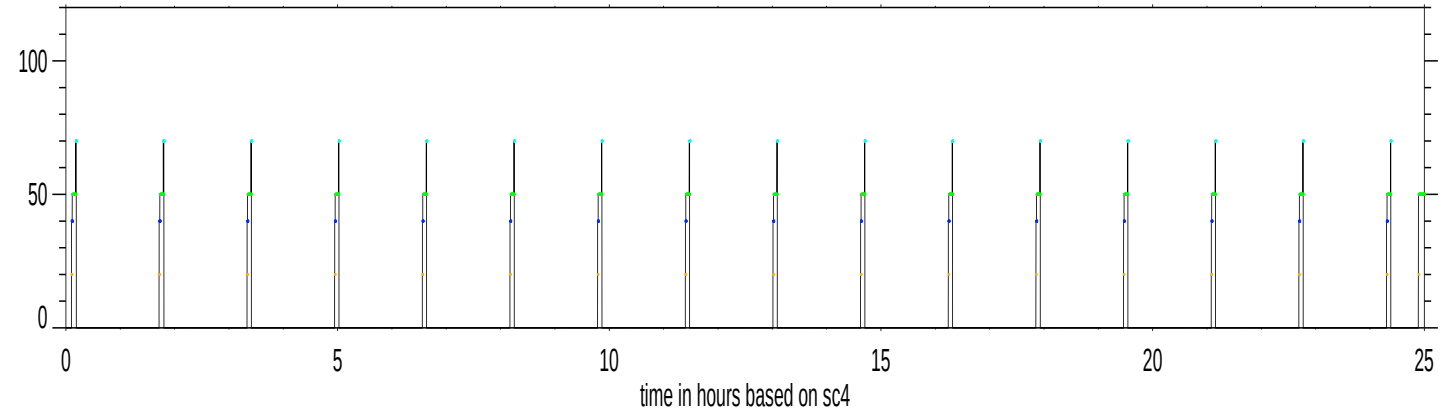
SEE_PKT_COUNT 2019203

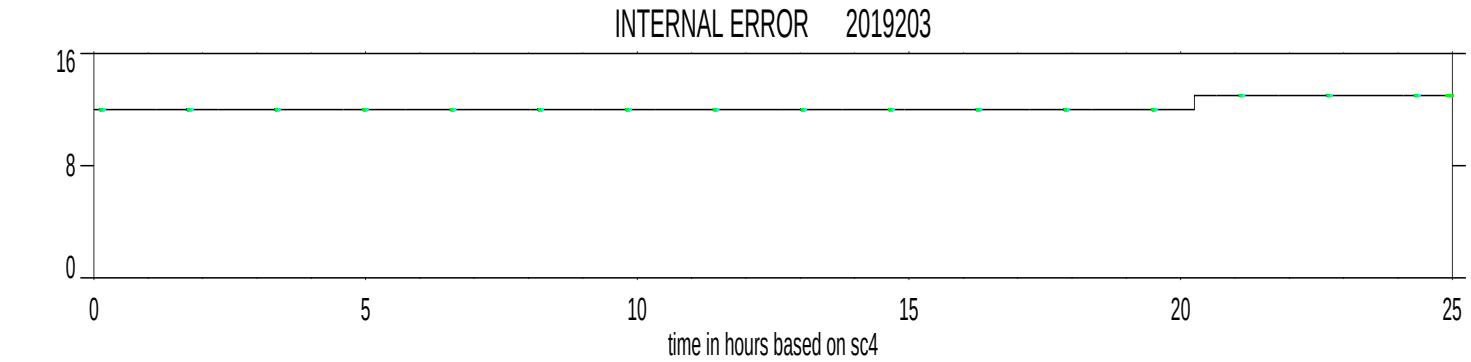


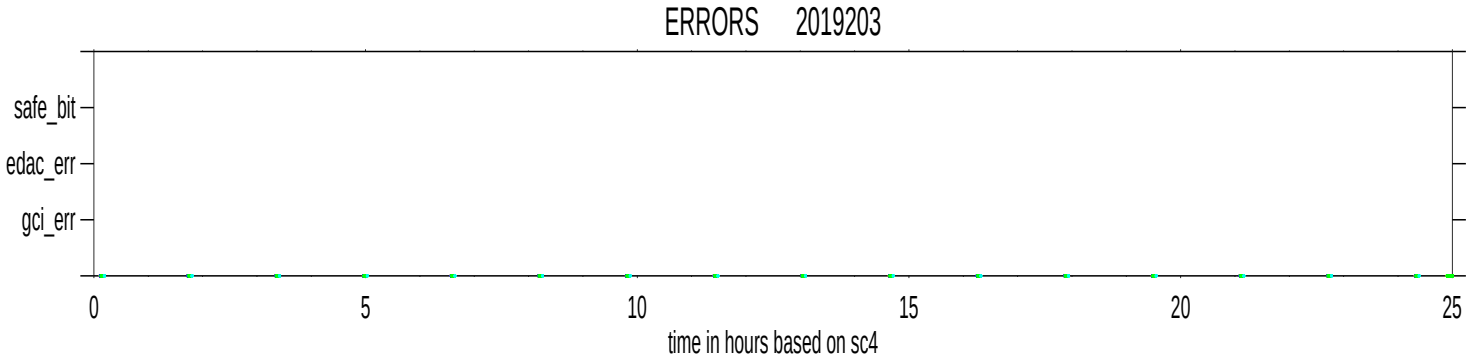
BUS_VOLTAGE 2019203

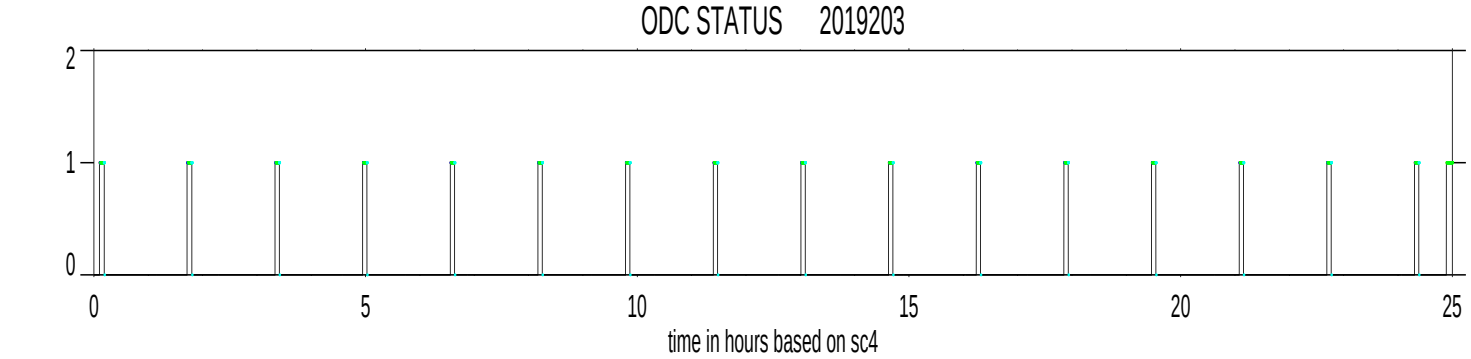


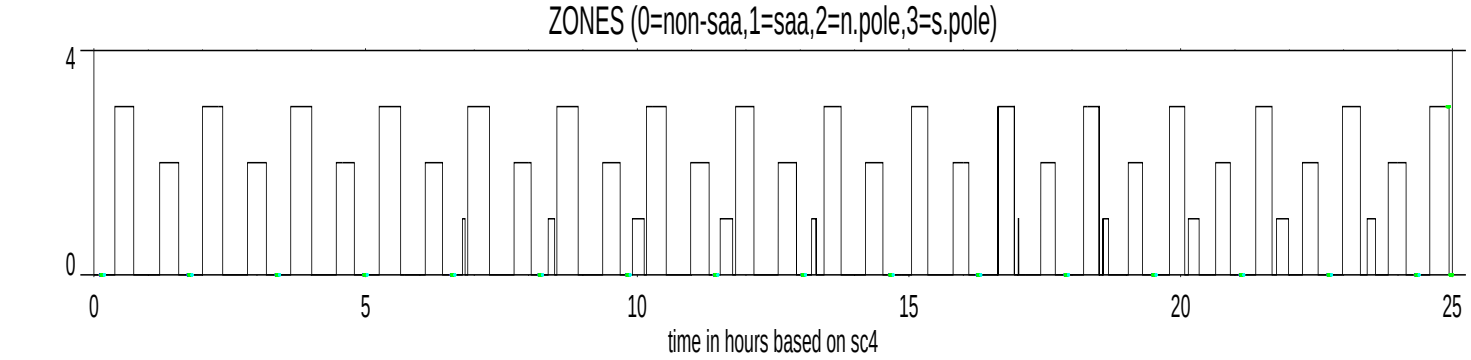
SEE_MU Operational Mode 2019203

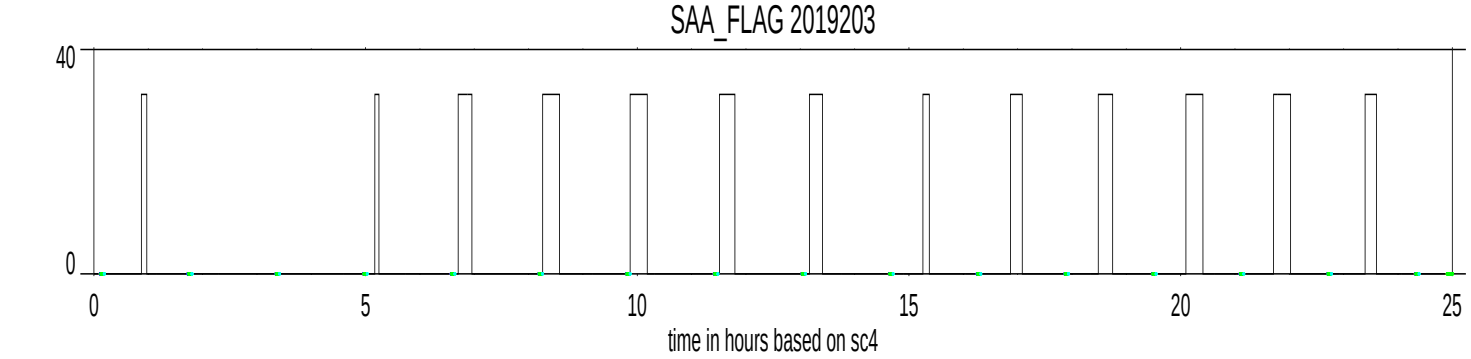


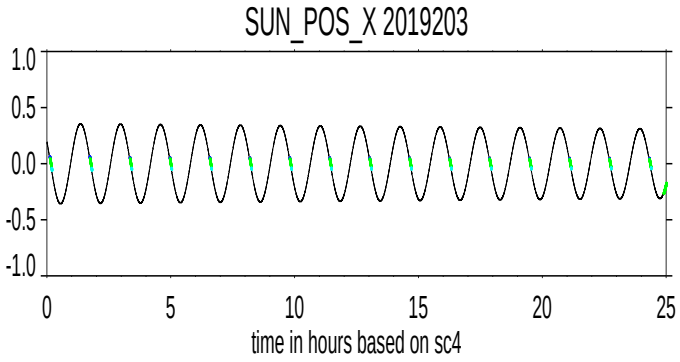

INTERNAL ERROR 2019203
16
8
0
0
5
10
15
20
25
time in hours based on sc4

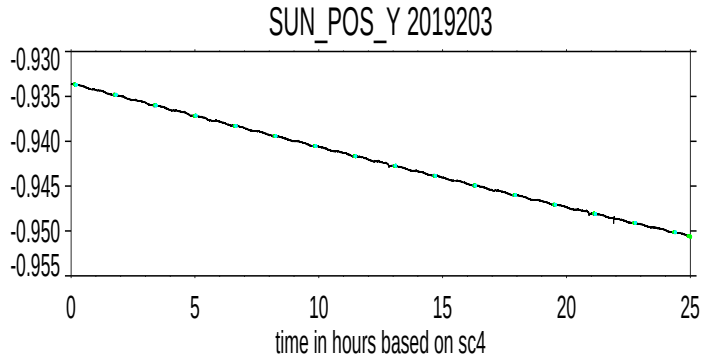

ERRORS 2019203
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

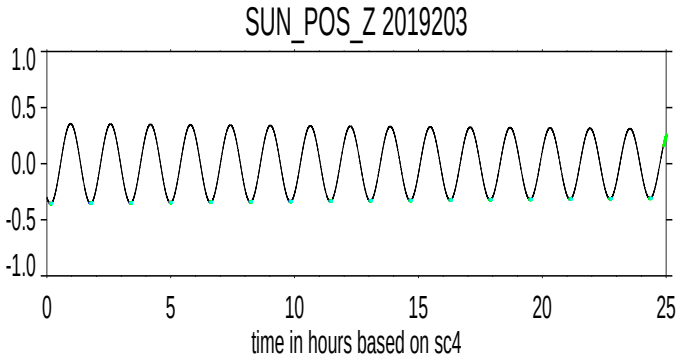

ODC STATUS 2019203
2
1
0
0
5
10
15
20
25
time in hours based on sc4

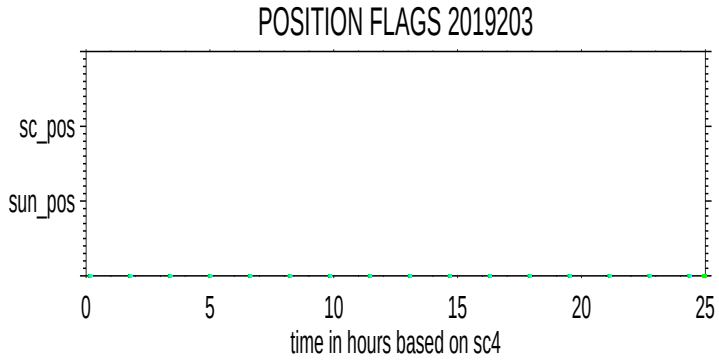

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

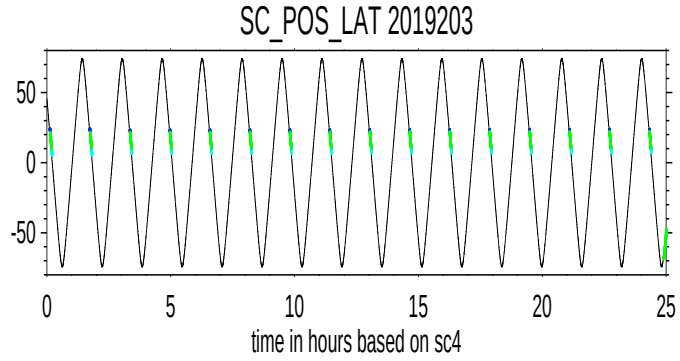

SAA_FLAG 2019203
40
0
0
5
10
15
20
25
time in hours based on sc4

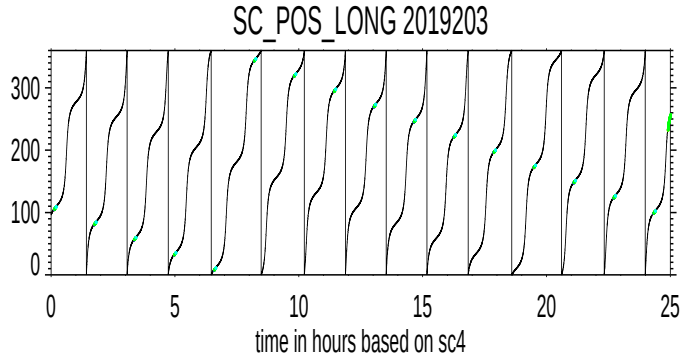

SUN_POS_X 2019203
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

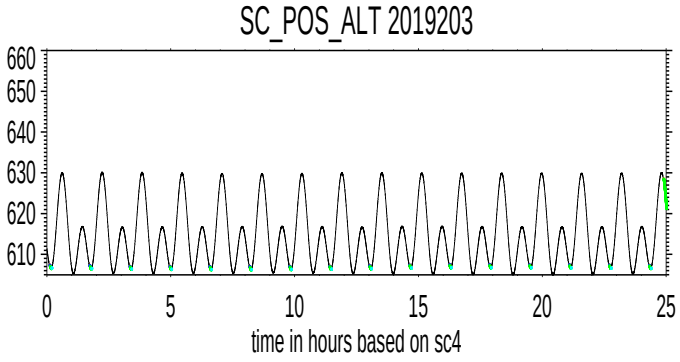

SUN_POS_Y 2019203
-0.930
-0.935
-0.940
-0.945
-0.950
-0.955
0
5
10
15
20
25
time in hours based on sc4

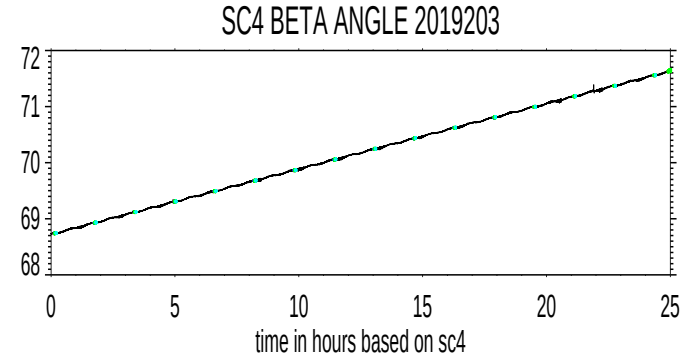

SUN_POS_Z 2019203
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019203
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019203
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019203
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019203
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019203
72
71
70
69
68
0
5
10
15
20
25
time in hours based on sc4