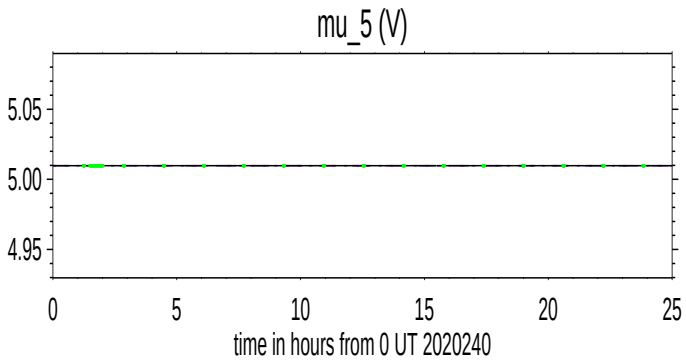
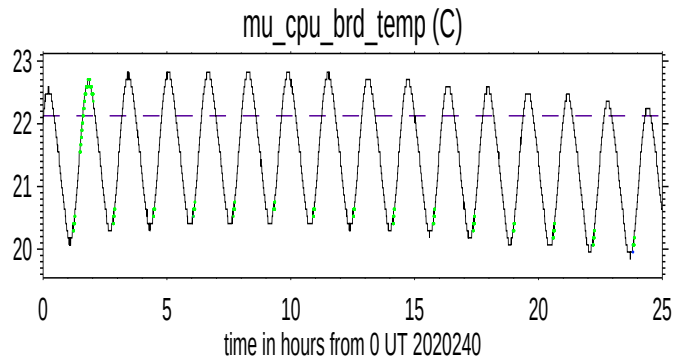
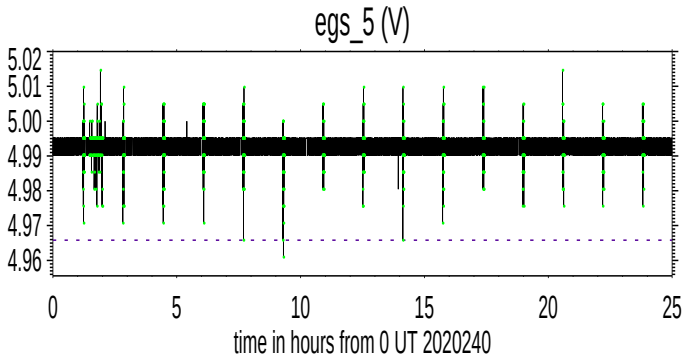
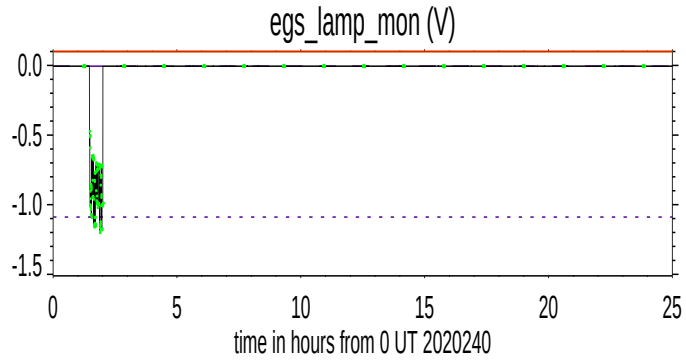
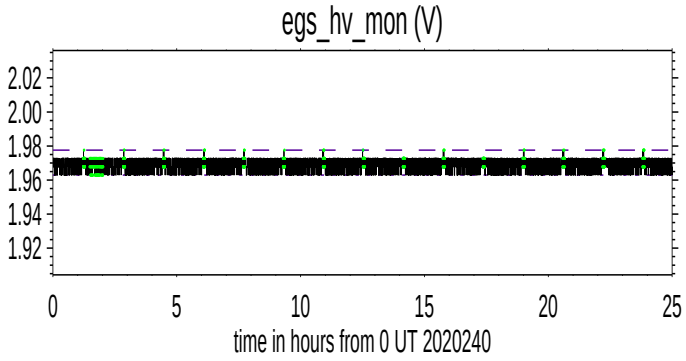
```
Information for      2020240
23:06:48.002: see_stat[1]: 14 internal error
```

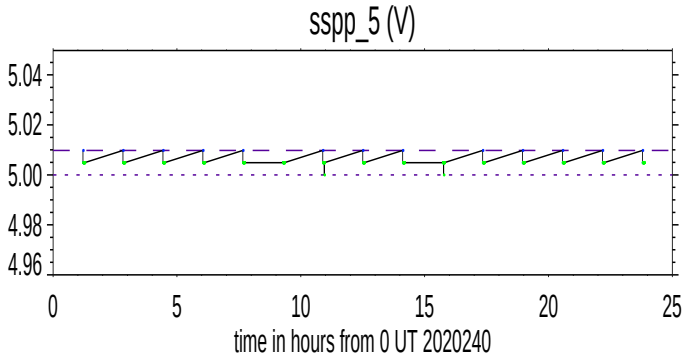

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020240

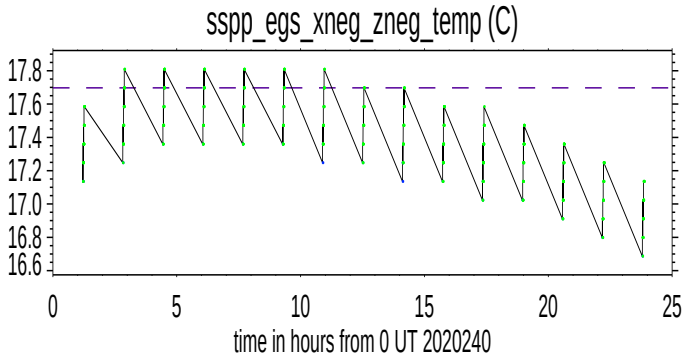

mu_cpu_brd_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020240


egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020240


egs_lamp_mon (V)
0.0
-0.5
-1.0
-1.5
0
5
10
15
20
25
time in hours from 0 UT 2020240


egs_hv_mon (V)
2.02
2.00
1.98
1.96
1.94
1.92
0
5
10
15
20
25
time in hours from 0 UT 2020240


sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020240


sspp_egs_xneg_zneg_temp (C)
17.8
17.6
17.4
17.2
17.0
16.8
16.6
0
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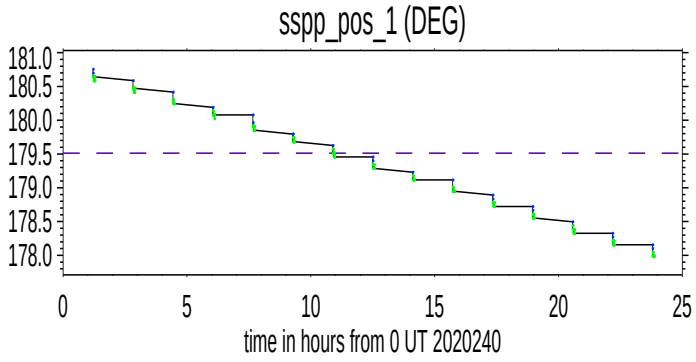
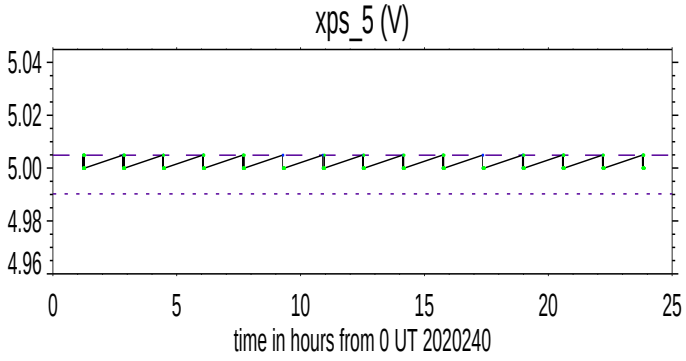
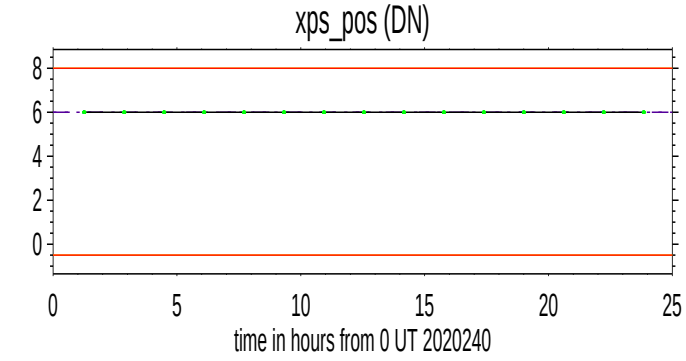
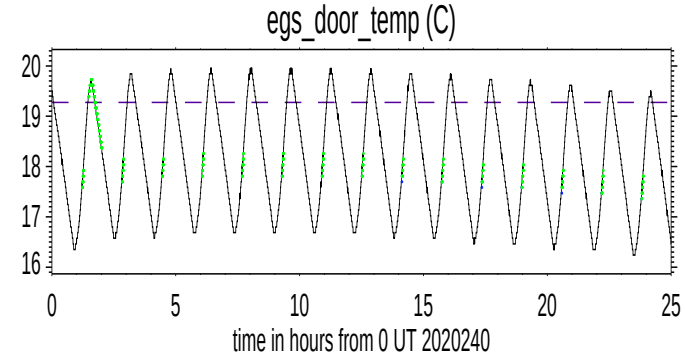
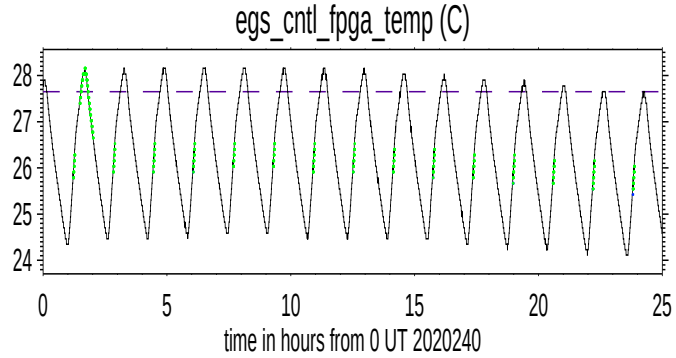
15
20
25
time in hours from 0 UT 2020240

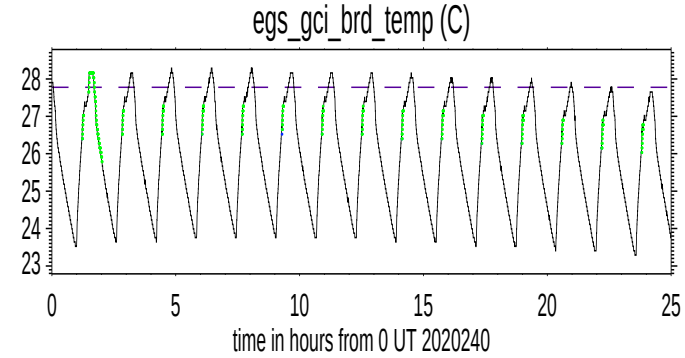

sspp_pos_1 (DEG)
181.0
180.5
180.0
179.5
179.0
178.5
178.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

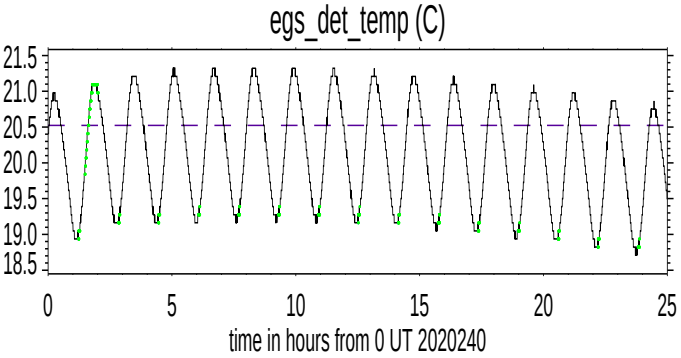

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020240

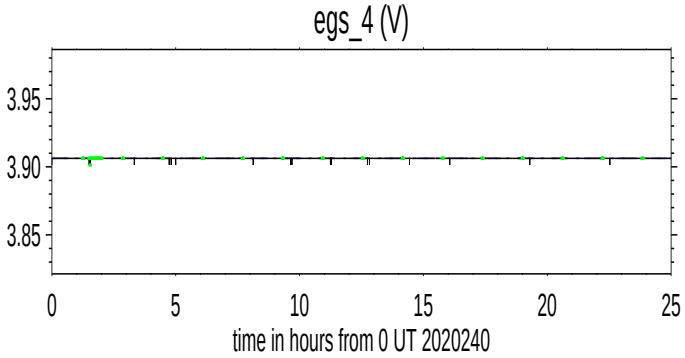

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2020240

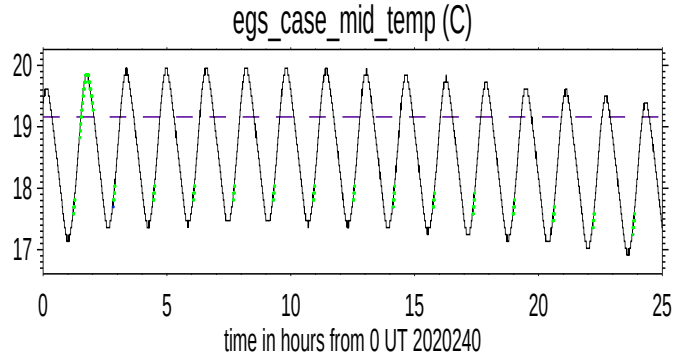

egs_door_temp (C)
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020240

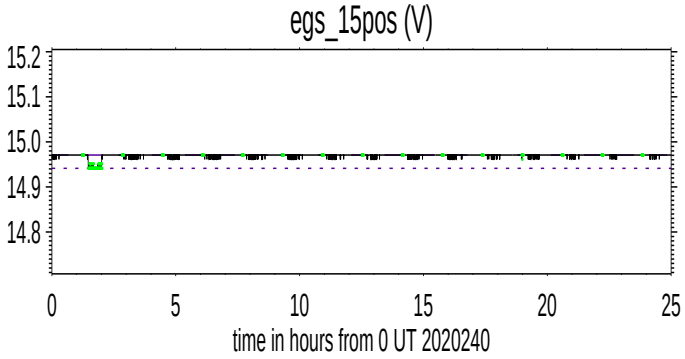

egs_cntl_fpga_temp (C)
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2020240

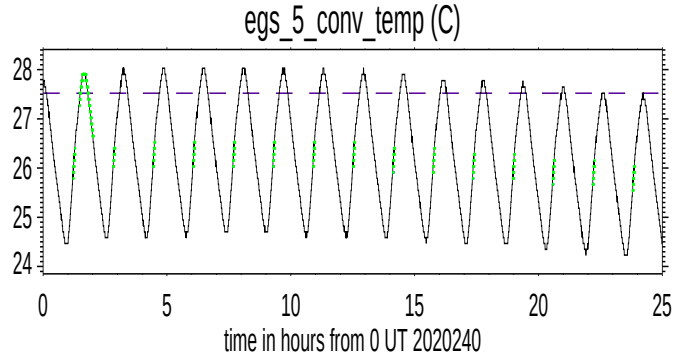

egs_gci_brd_temp (C)
28
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020240

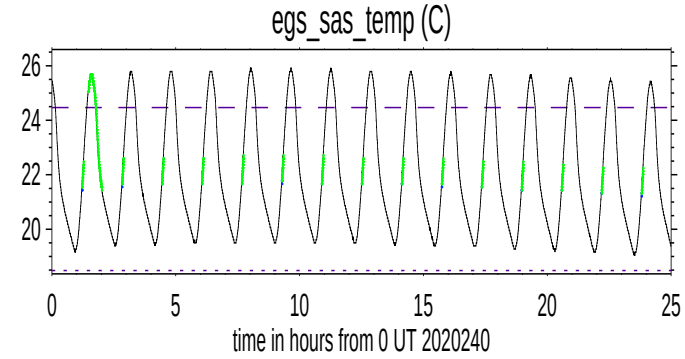

egs_det_temp (C)
21.5
21.0
20.5
20.0
19.5
19.0
18.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

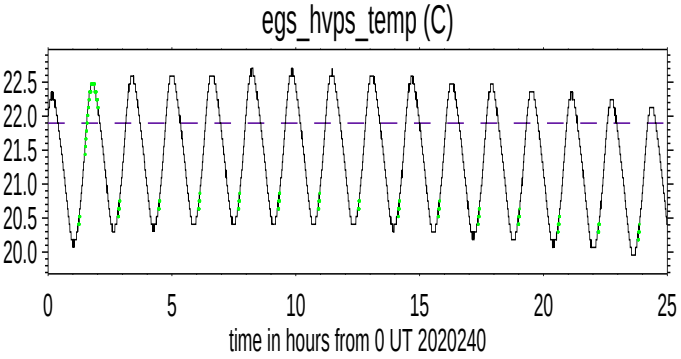

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020240

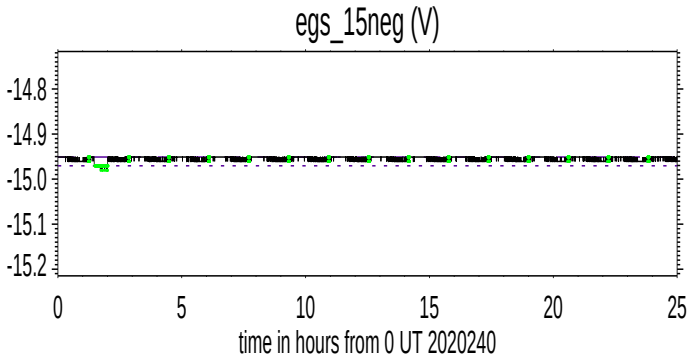

egs_case_mid_temp (C)
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020240

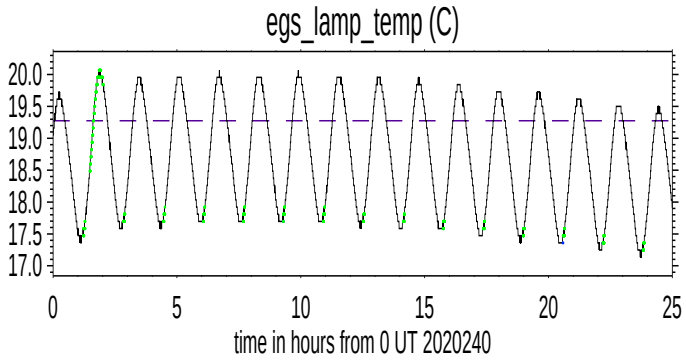

egs_15pos (V)
15.2
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2020240

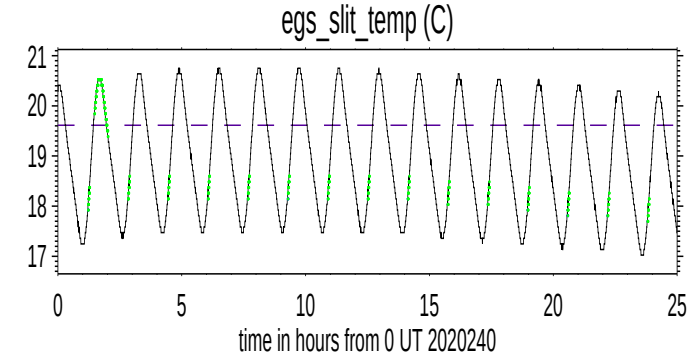

egs_5_conv_temp (C)
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2020240

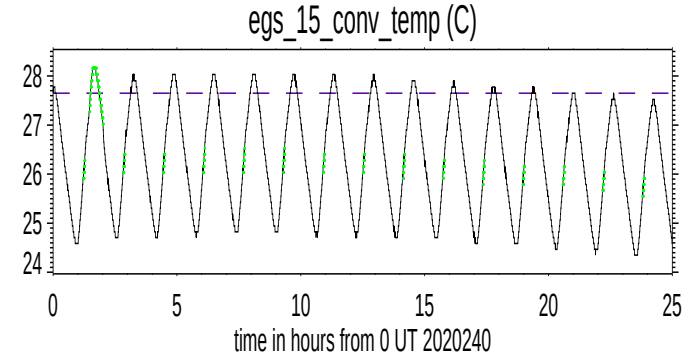

egs_sas_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020240

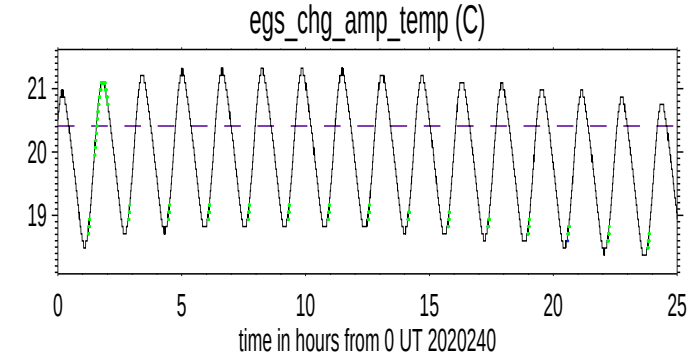

egs_hvps_temp (C)
22.5
22.0
21.5
21.0
20.5
20.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

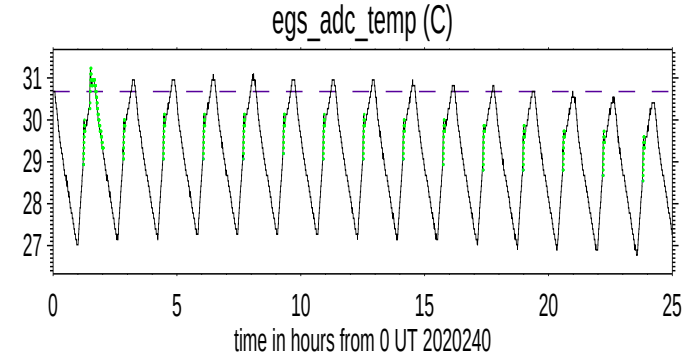

egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0 5 10 15 20 25
time in hours from 0 UT 2020240

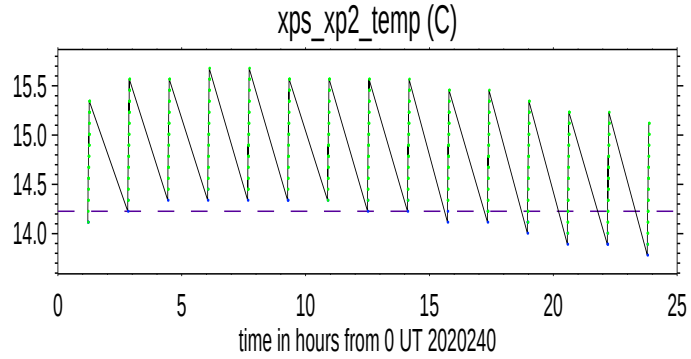

egs_lamp_temp (C)
20.0
19.5
19.0
18.5
18.0
17.5
17.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

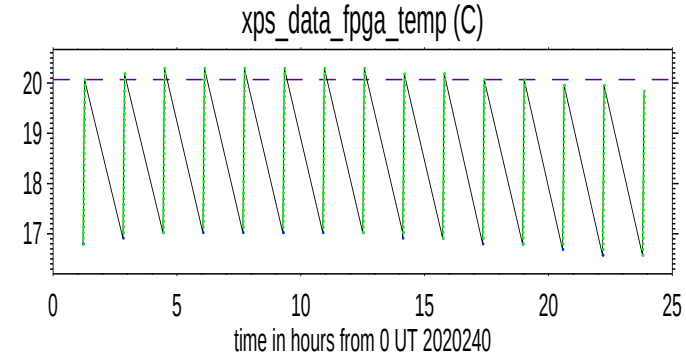

egs_slit_temp (C)
21
20
19
18
17
0 5 10 15 20 25
time in hours from 0 UT 2020240

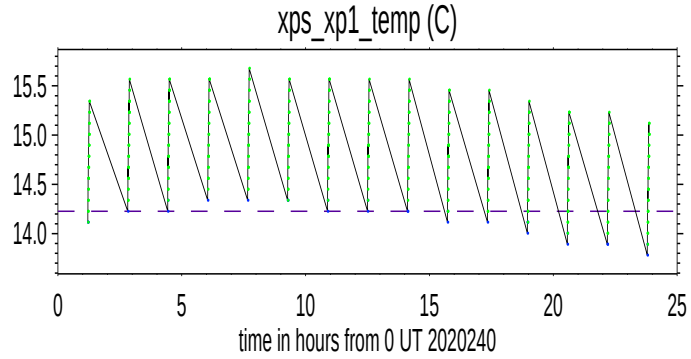

egs_15_conv_temp (C)
28
27
26
25
24
0 5 10 15 20 25
time in hours from 0 UT 2020240

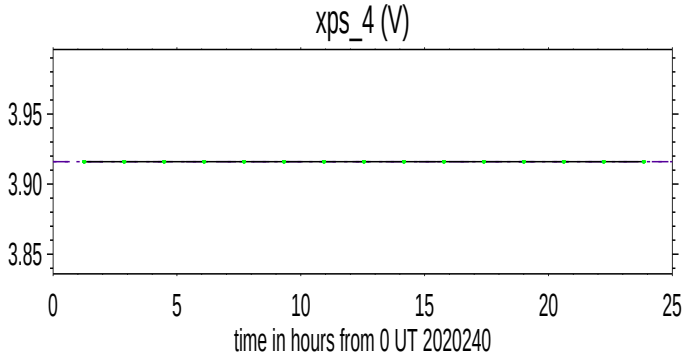

egs_chg_amp_temp (C)
21
20
19
0 5 10 15 20 25
time in hours from 0 UT 2020240

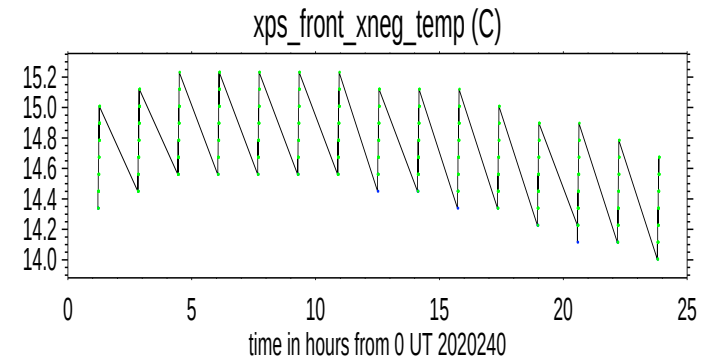

egs_adc_temp (C)
31
30
29
28
27
0 5 10 15 20 25
time in hours from 0 UT 2020240

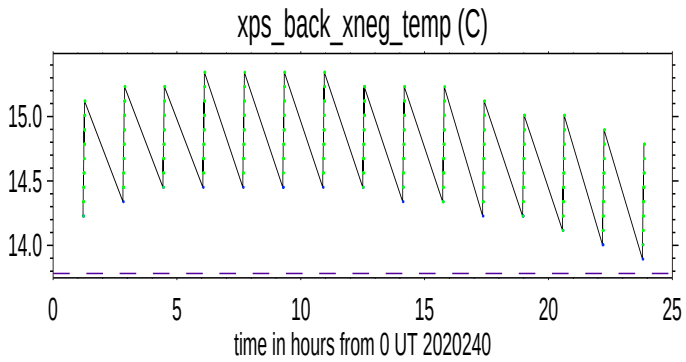

xps_xp2_temp (C)
15.5
15.0
14.5
14.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

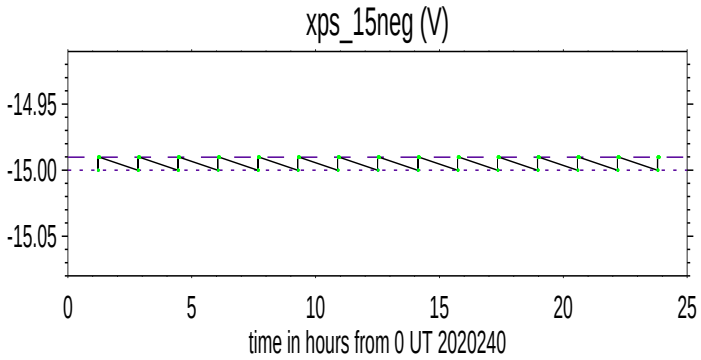

xps_data_fpga_temp (C)
20
19
18
17
0 5 10 15 20 25
time in hours from 0 UT 2020240


xps_xp1_temp (C)
15.5
15.0
14.5
14.0
0 5 10 15 20 25
time in hours from 0 UT 2020240


xps_4 (V)
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2020240


xps_front_xneg_temp (C)
15.2
15.0
14.8
14.6
14.4
14.2
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020240


xps_back_xneg_temp (C)
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020240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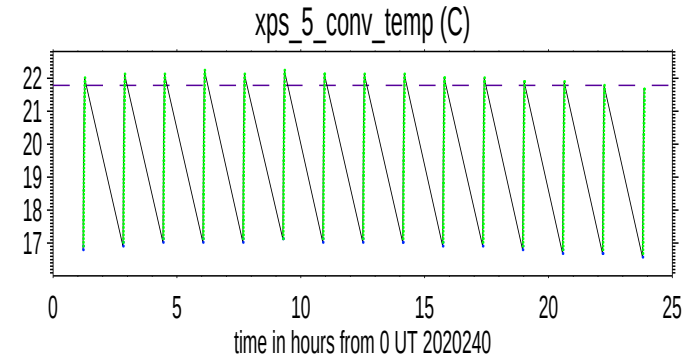
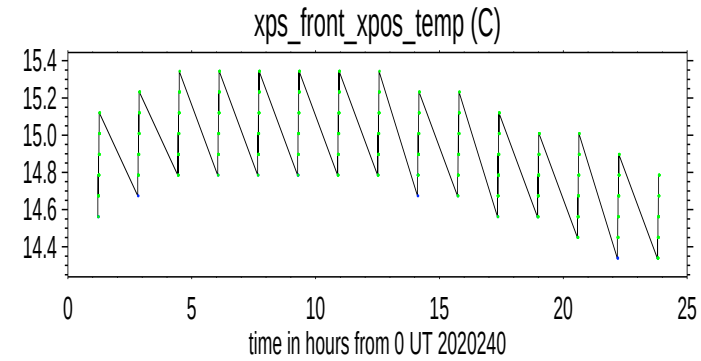
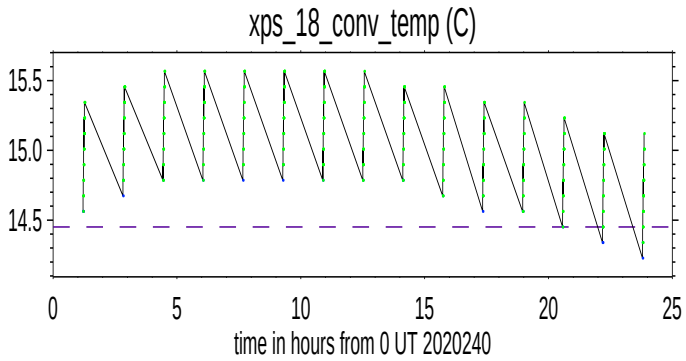
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020240


xps_5_conv_temp (C)
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020240


xps_front_xpos_temp (C)
15.4
15.2
15.0
14.8
14.6
14.4
0
5
10
15
20
25
time in hours from 0 UT 2020240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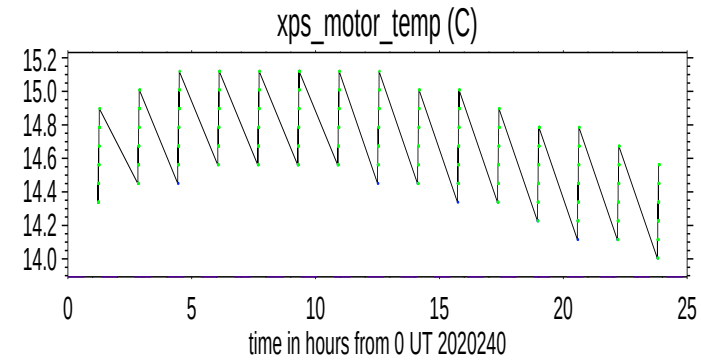
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2020240


xps_motor_temp (C)
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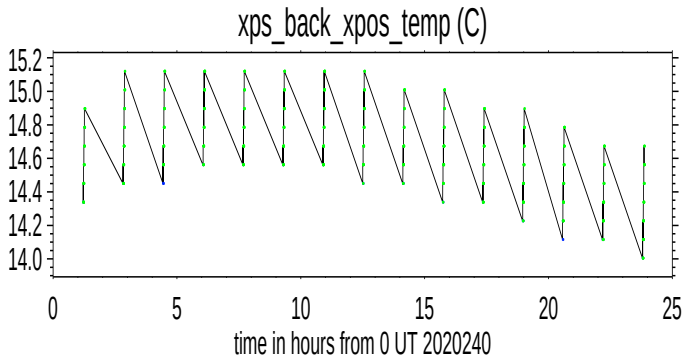
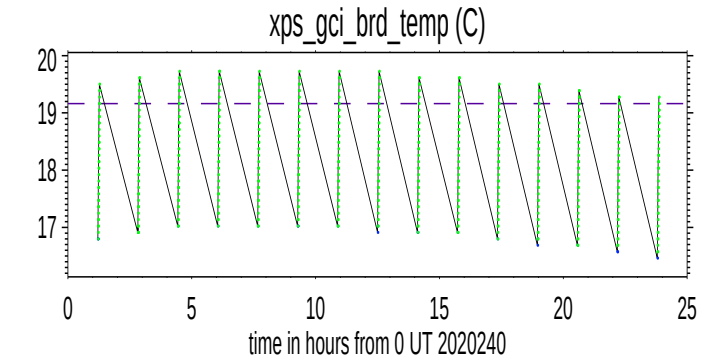
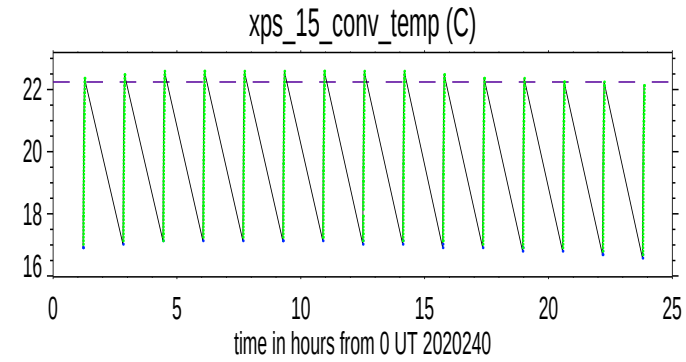
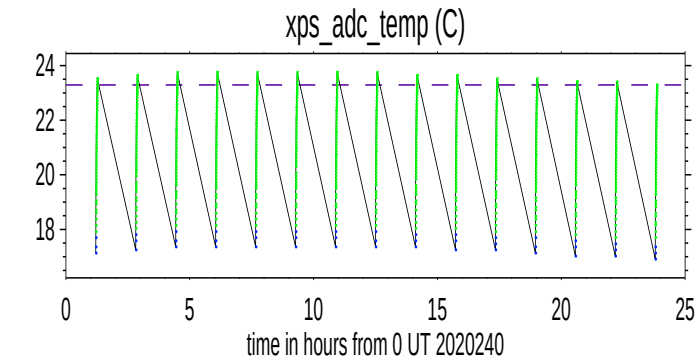
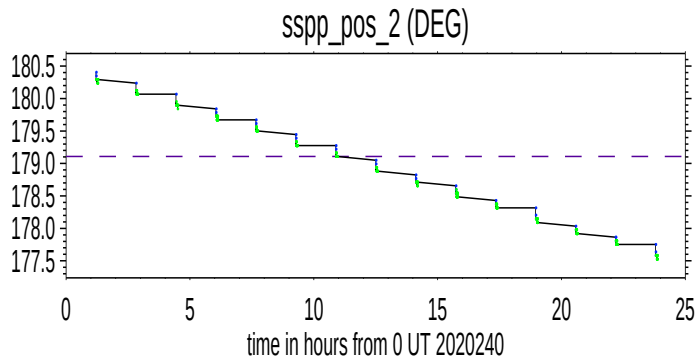
15.0
14.8
14.6
14.4
14.2
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

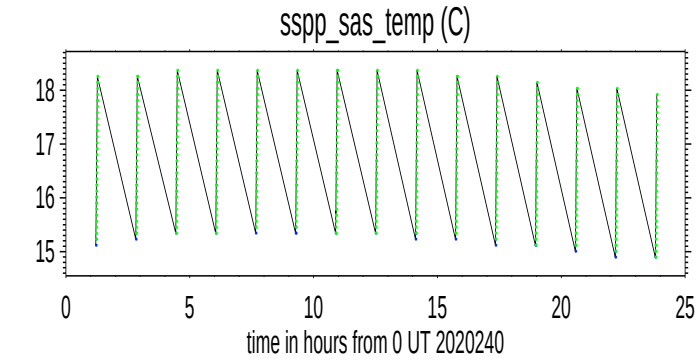

xps_back_xpos_temp (C)
15.2
15.0
14.8
14.6
14.4
14.2
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

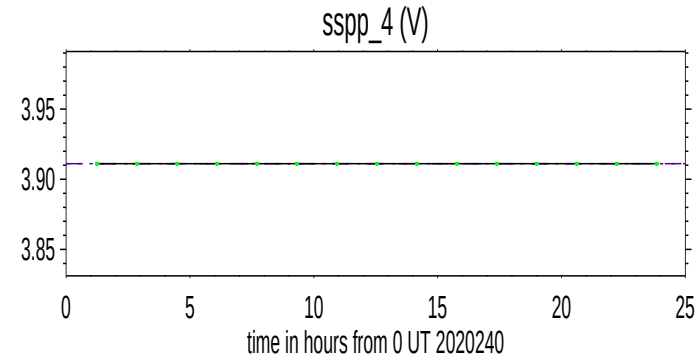

xps_gci_brd_temp (C)
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020240

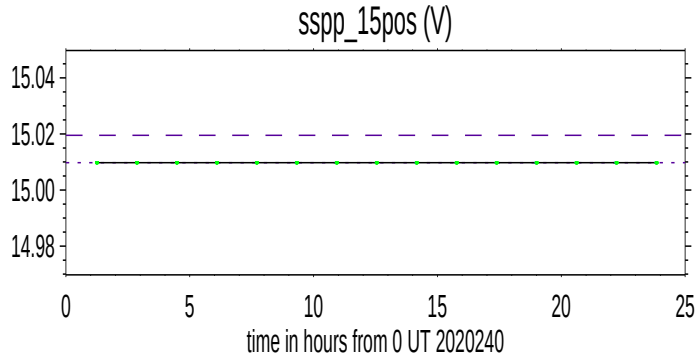

xps_15_conv_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020240

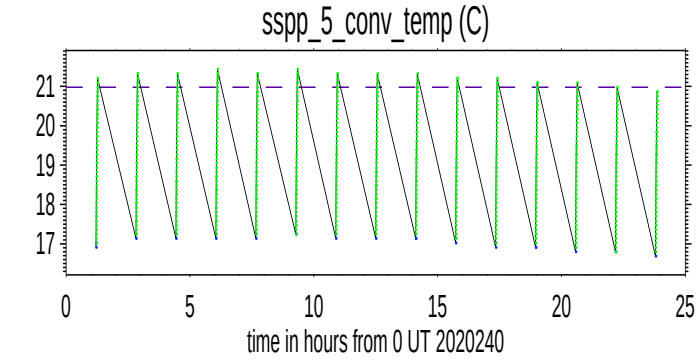

xps_adc_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020240

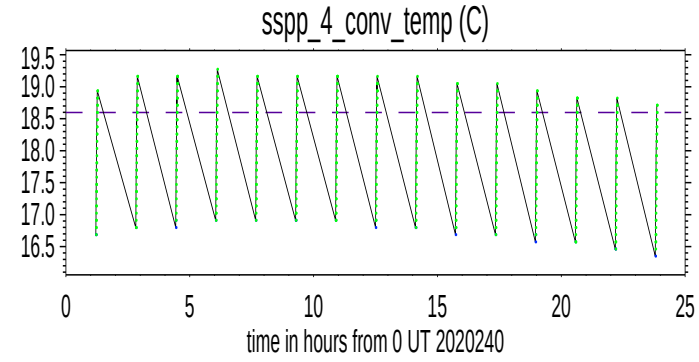

sspp_pos_2 (DEG)
180.5
180.0
179.5
179.0
178.5
178.0
177.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

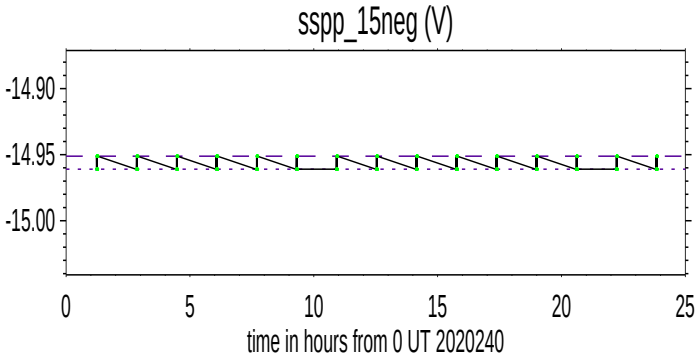

sspp_sas_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020240

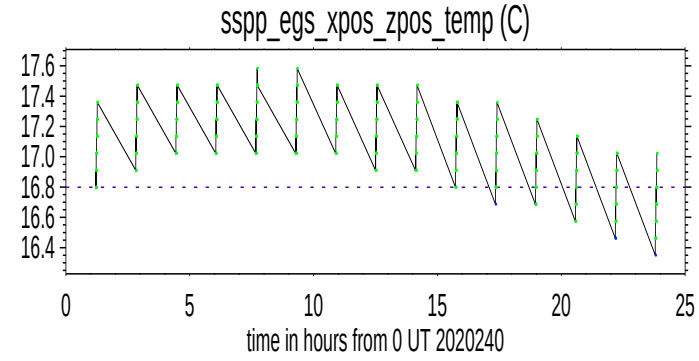

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020240

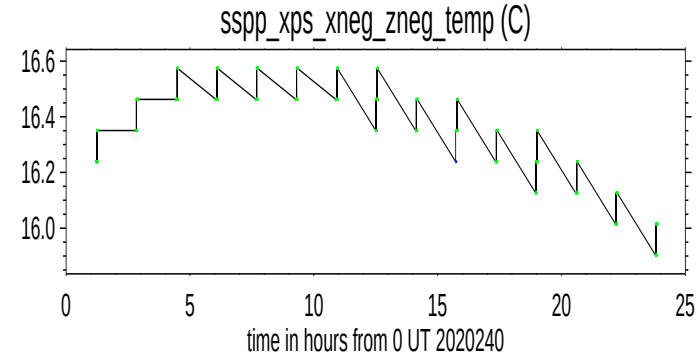

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020240

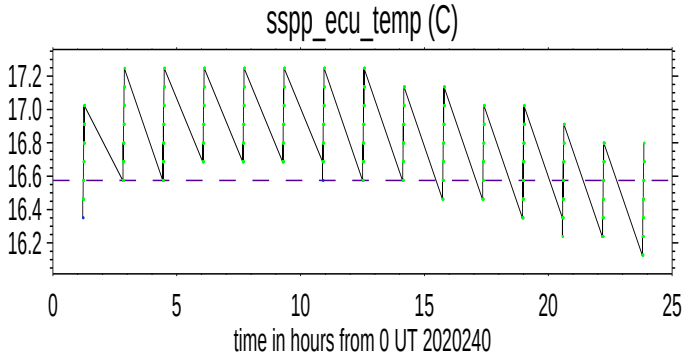

sspp_5_conv_temp (C)
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020240

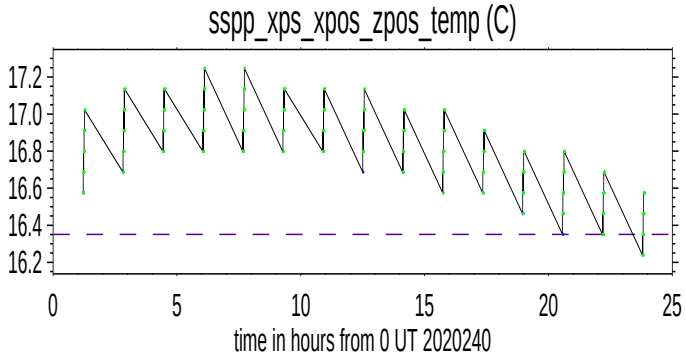

sspp_4_conv_temp (C)
19.5
19.0
18.5
18.0
17.5
17.0
16.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

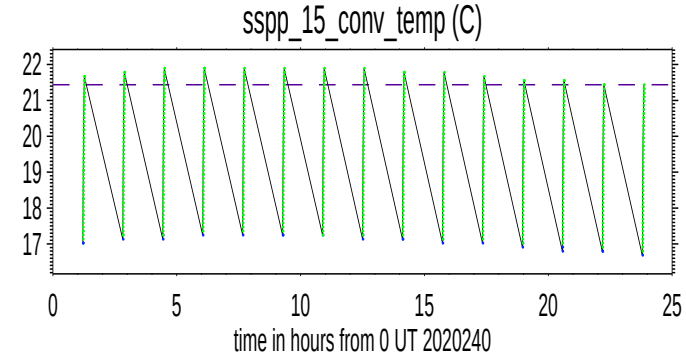

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020240

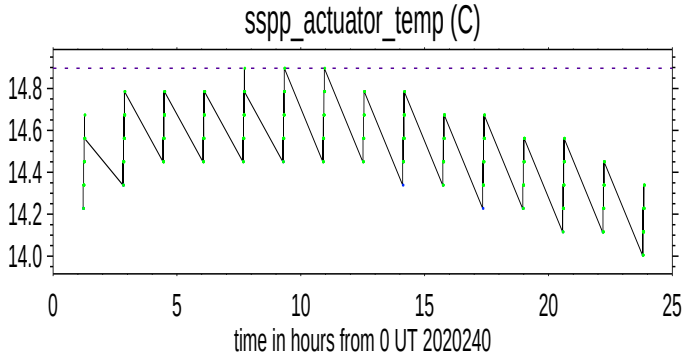

sspp_egs_xpos_zpos_temp (C)
17.6
17.4
17.2
17.0
16.8
16.6
16.4
0
5
10
15
20
25
time in hours from 0 UT 2020240

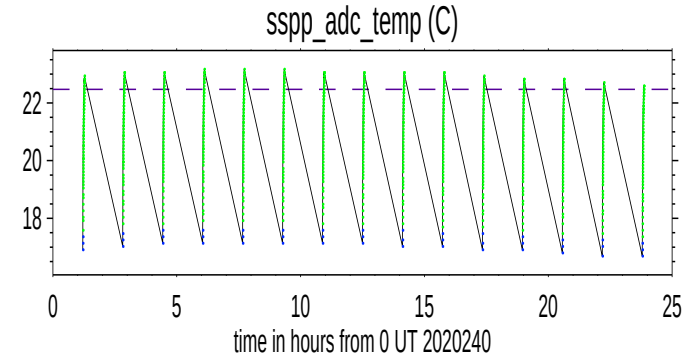

sspp_xps_xneg_zneg_temp (C)
16.6
16.4
16.2
16.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

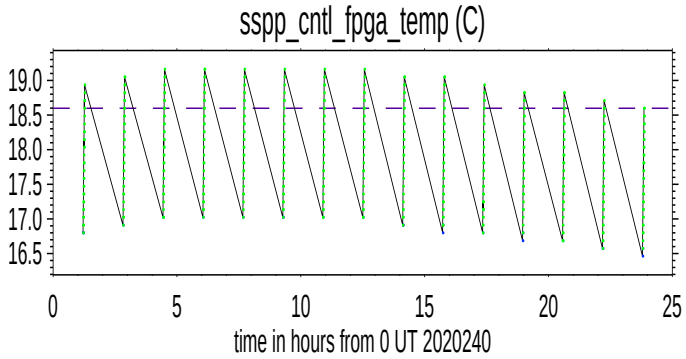

sspp_ecu_temp (C)
17.2
17.0
16.8
16.6
16.4
16.2
0
5
10
15
20
25
time in hours from 0 UT 2020240

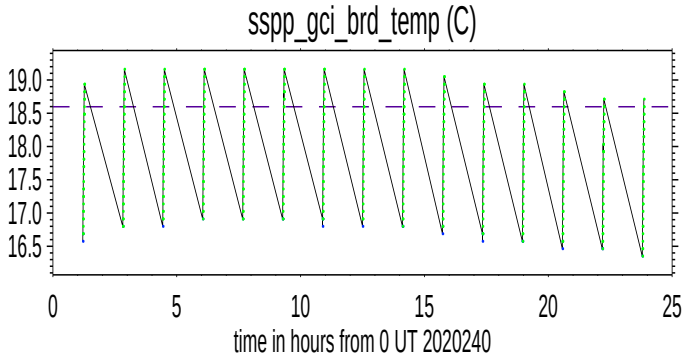

sspp_xps_xpos_zpos_temp (C)
17.2
17.0
16.8
16.6
16.4
16.2
0
5
10
15
20
25
time in hours from 0 UT 2020240

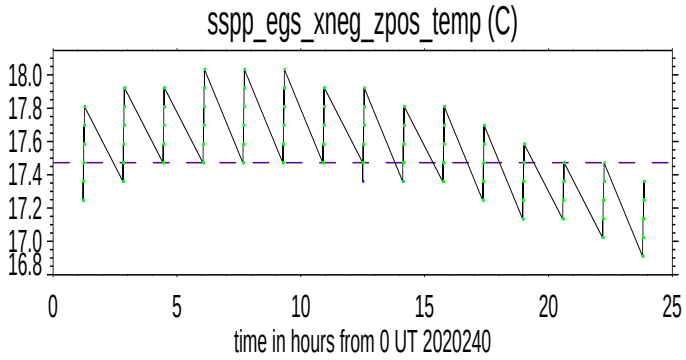

sspp_15_conv_temp (C)
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020240

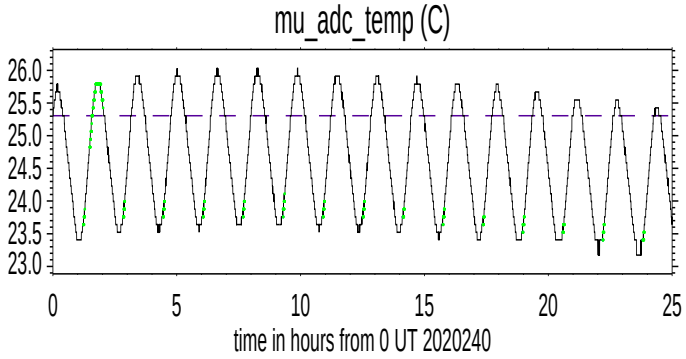

sspp_actuator_temp (C)
14.8
14.6
14.4
14.2
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

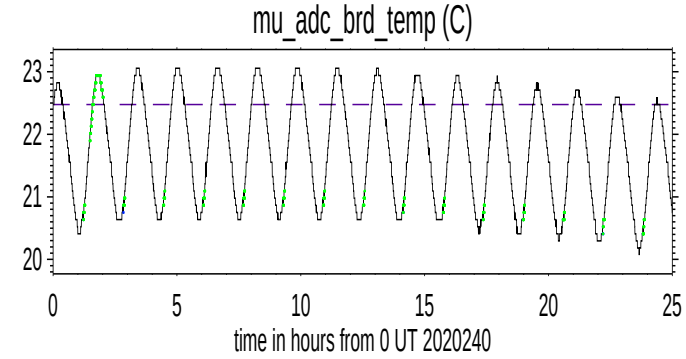

sspp_adc_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020240

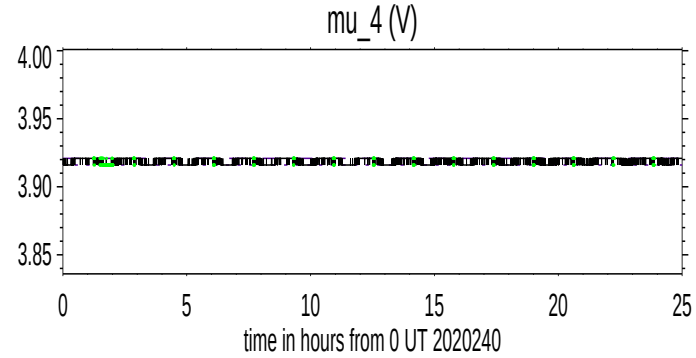

sspp_cntl_fpga_temp (C)
19.0
18.5
18.0
17.5
17.0
16.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

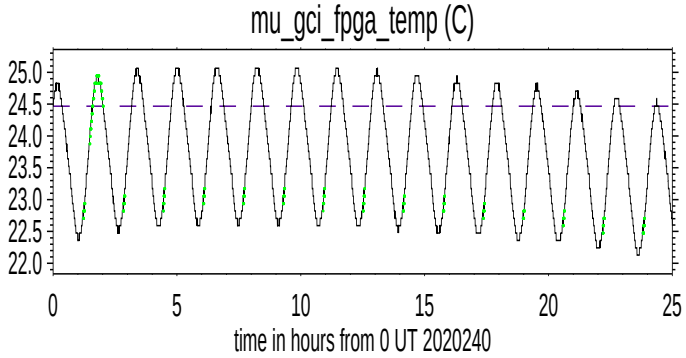

sspp_gci_brd_temp (C)
19.0
18.5
18.0
17.5
17.0
16.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

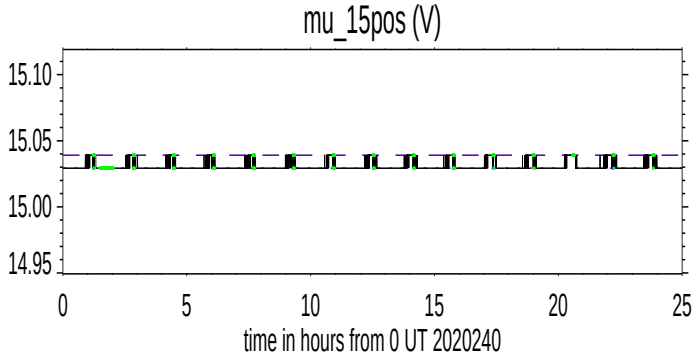

sspp_egs_xneg_zpos_temp (C)
18.0
17.8
17.6
17.4
17.2
17.0
16.8
0
5
10
15
20
25
time in hours from 0 UT 2020240

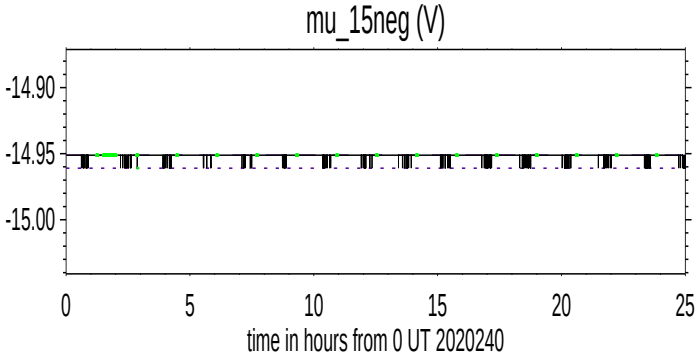

mu_adc_temp (C)
26.0
25.5
25.0
24.5
24.0
23.5
23.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

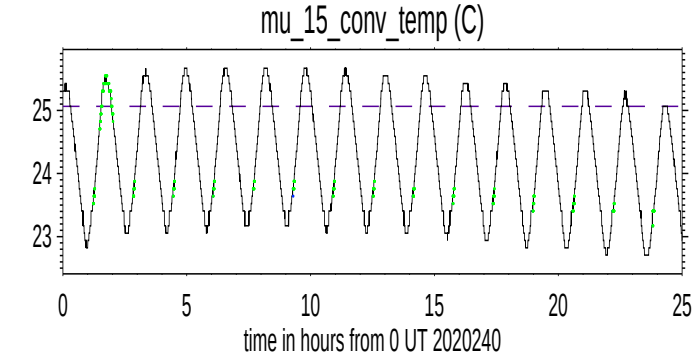

mu_adc_brd_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020240

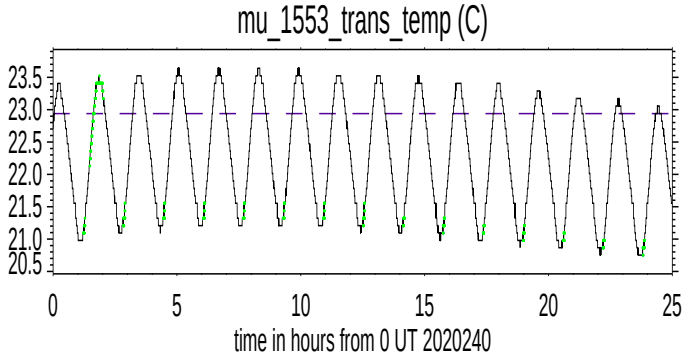

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020240

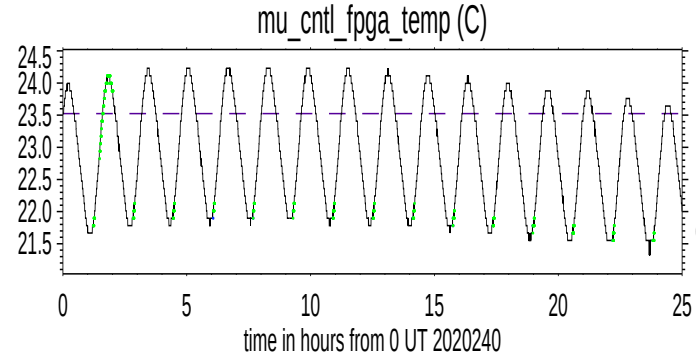

mu_gci_fpga_temp (C)
25.0
24.5
24.0
23.5
23.0
22.5
22.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

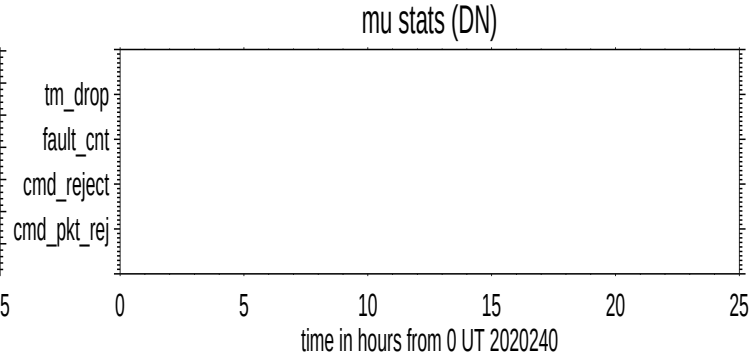

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2020240

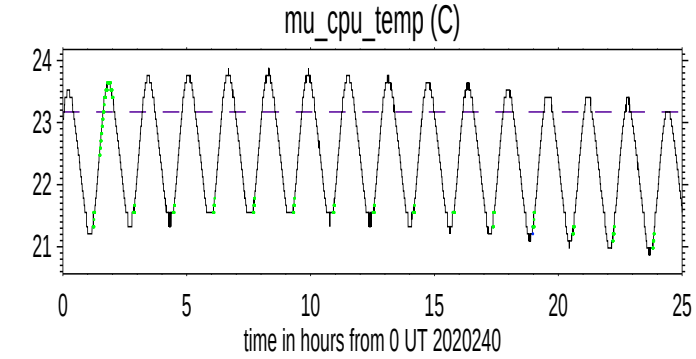

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020240

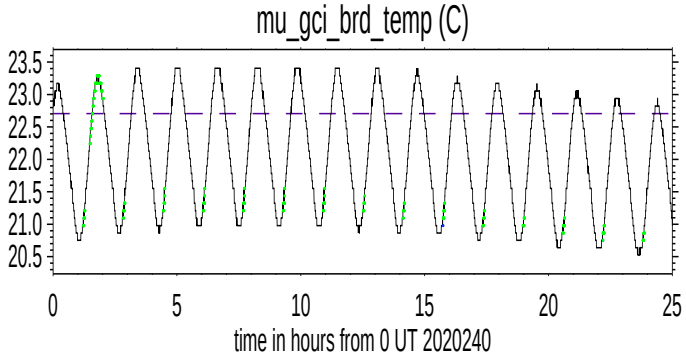

mu_15_conv_temp (C)
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020240

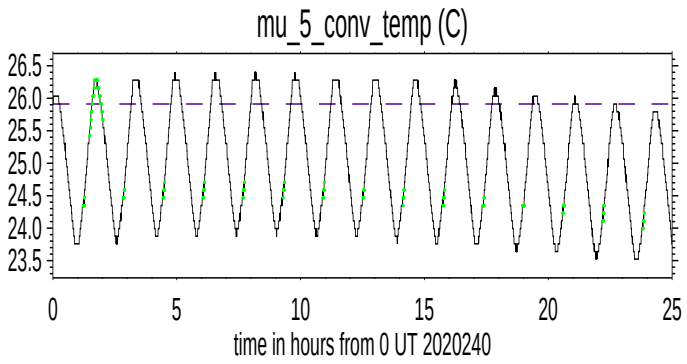

mu_1553_trans_temp (C)
23.5
23.0
22.5
22.0
21.5
21.0
20.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

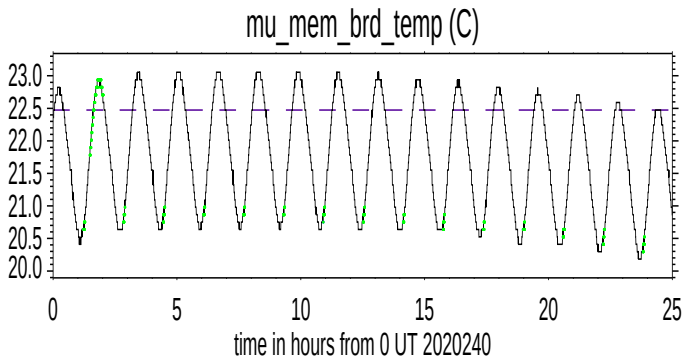

mu_cntl_fpga_temp (C)
24.5
24.0
23.5
23.0
22.5
22.0
21.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

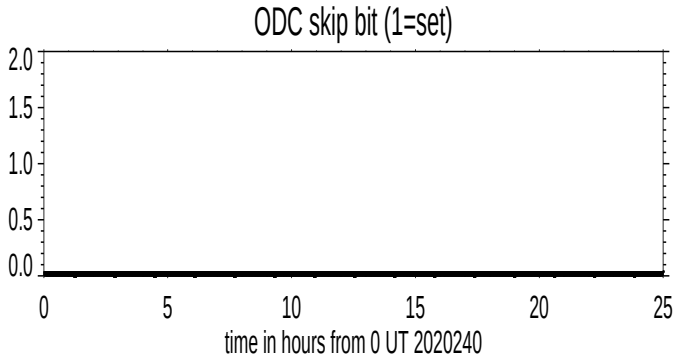

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2020240

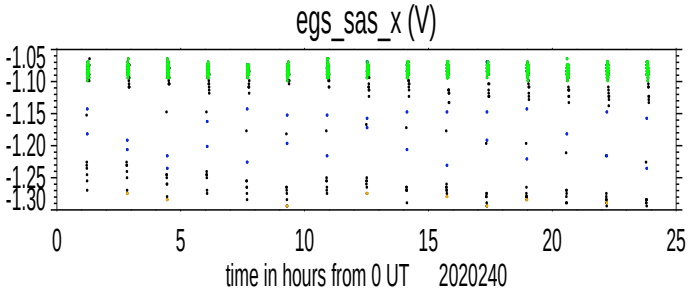

mu_cpu_temp (C)
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2020240

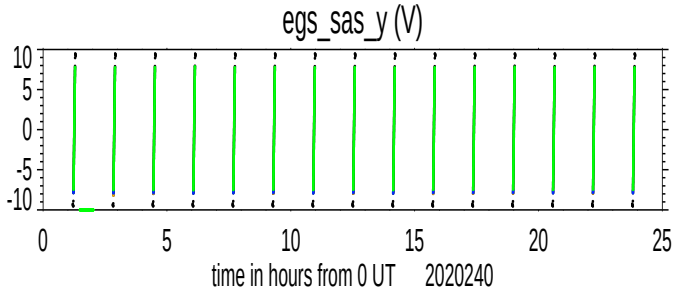

mu_gci_brd_temp (C)
23.5
23.0
22.5
22.0
21.5
21.0
20.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

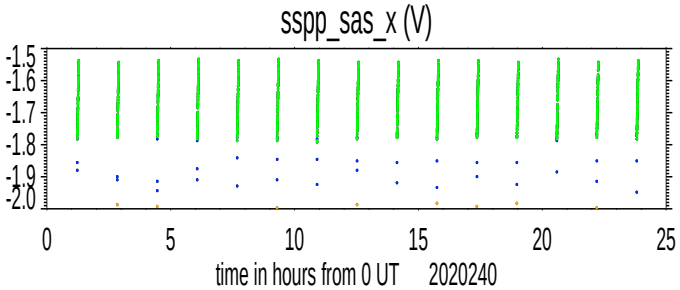

mu_5_conv_temp (C)
26.5
26.0
25.5
25.0
24.5
24.0
23.5
0
5
10
15
20
25
time in hours from 0 UT 2020240

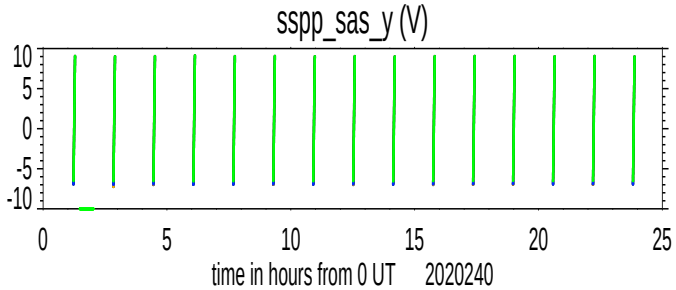

mu_mem_brd_temp (C)
23.0
22.5
22.0
21.5
21.0
20.5
20.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

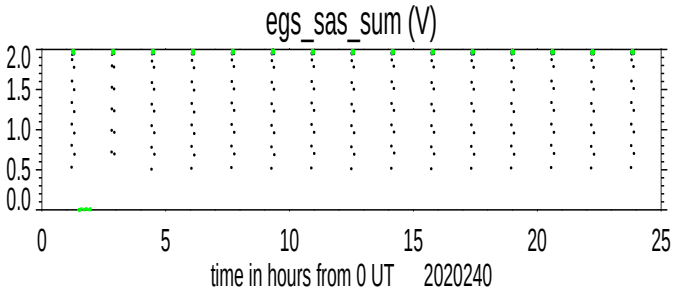

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020240

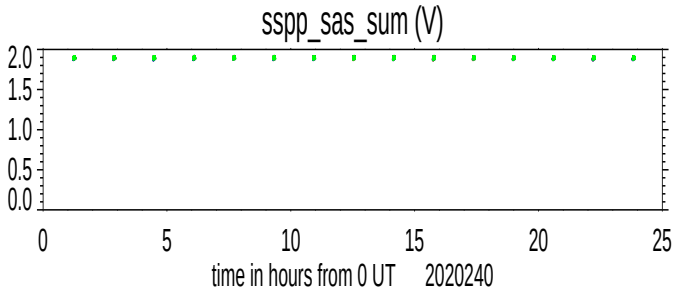

egs_sas_x (V)
-1.05
-1.10
-1.15
-1.20
-1.25
-1.30
0 5 10 15 20 25
time in hours from 0 UT 2020240

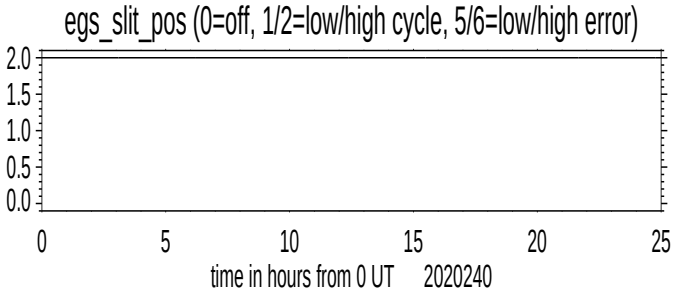

egs_sas_y (V)
10
5
0
-5
-10
0 5 10 15 20 25
time in hours from 0 UT 2020240

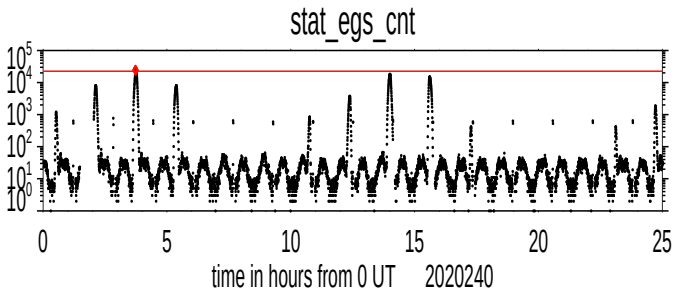

sspp_sas_x (V)
-1.5
-1.6
-1.7
-1.8
-1.9
-2.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

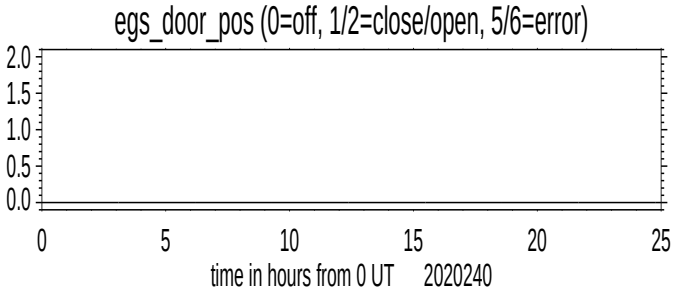

sspp_sas_y (V)
10
5
0
-5
-10
0 5 10 15 20 25
time in hours from 0 UT 2020240

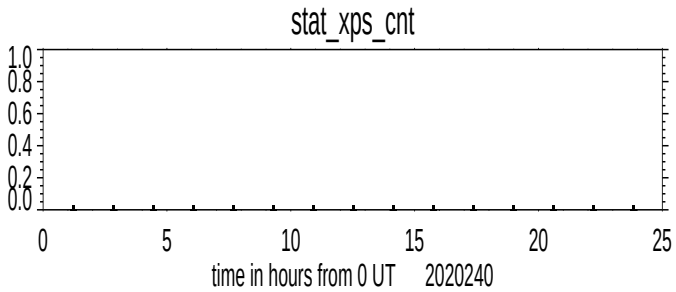

egs_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

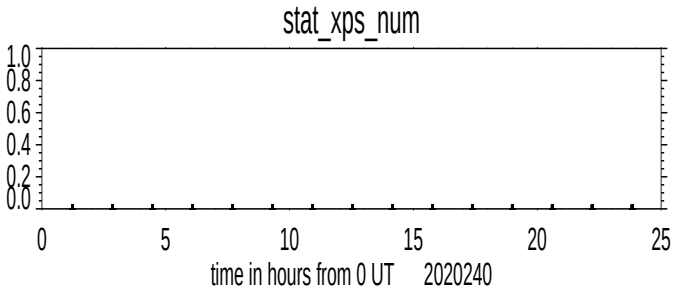

sspp_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

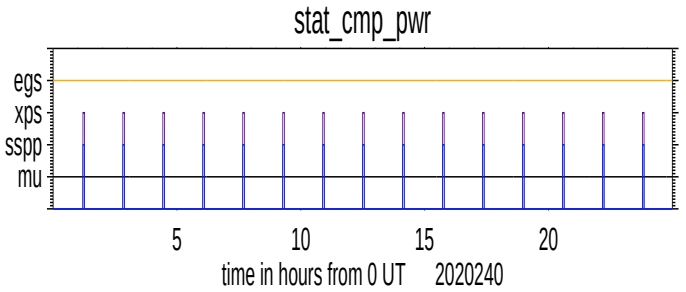

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240


stat_egs_cnt
10^5
10^4
10^3
10^2
10^1
10^0
0 5 10 15 20 25
time in hours from 0 UT 2020240

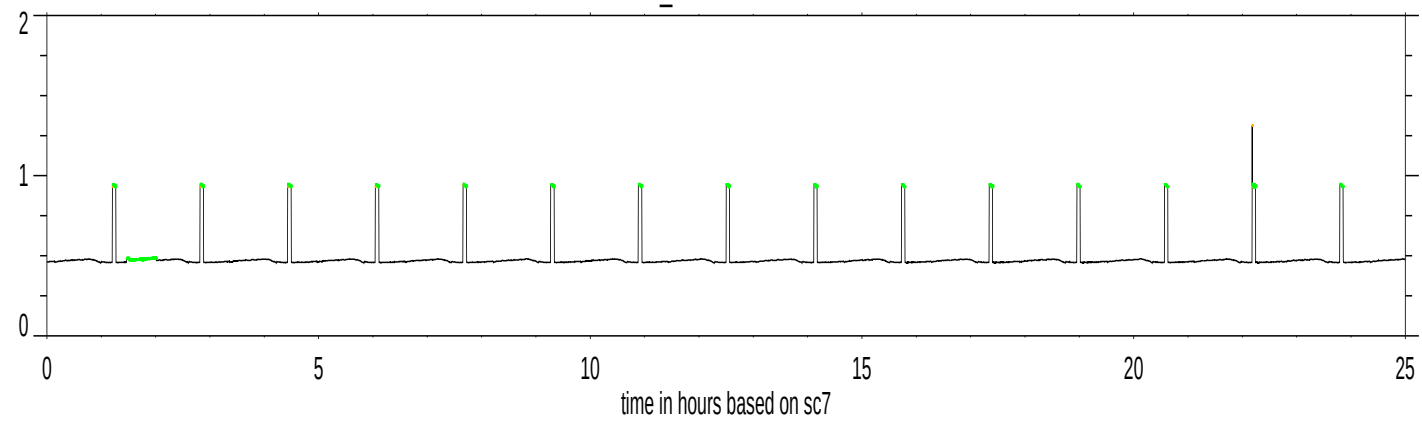

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240


stat_xps_cnt
1.0
0.8
0.6
0.4
0.2
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240

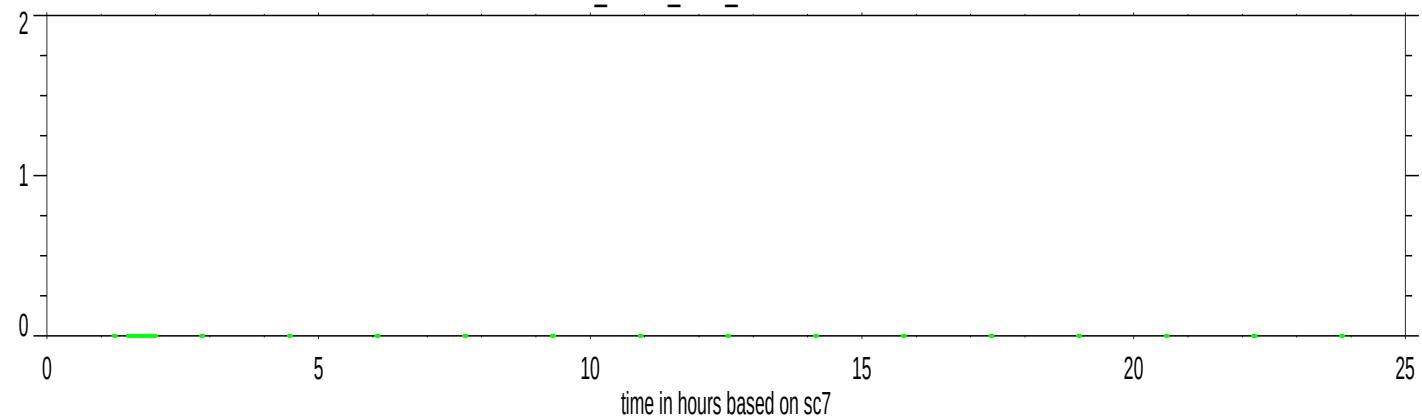

stat_xps_num
1.0
0.8
0.6
0.4
0.2
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020240


stat_cmp_pwr
egs
xps
sspp
mu
5 10 15 20
time in hours from 0 UT 2020240

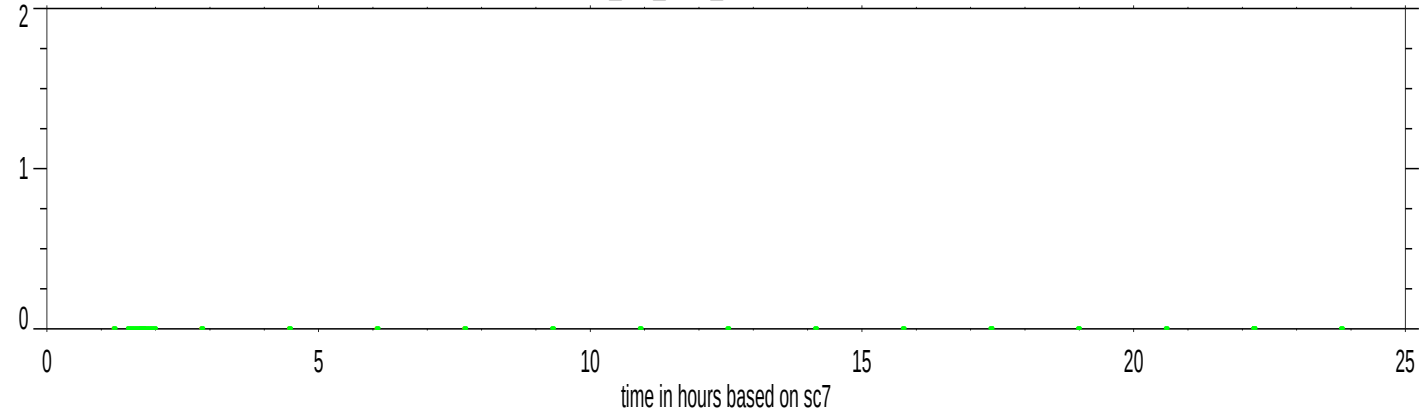
SEE_CUR 2020240



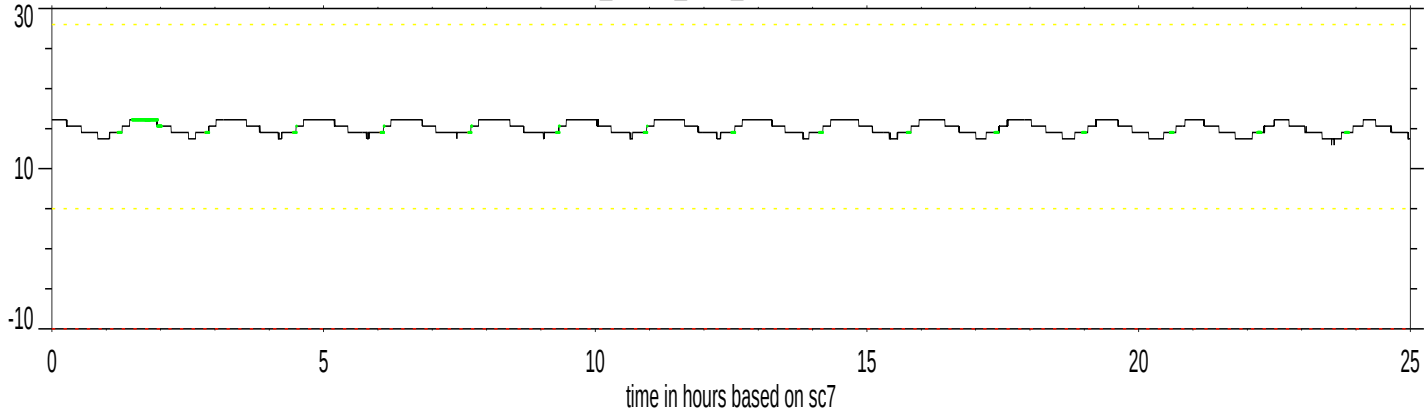
SEE_SURV_HTR_CUR 2020240



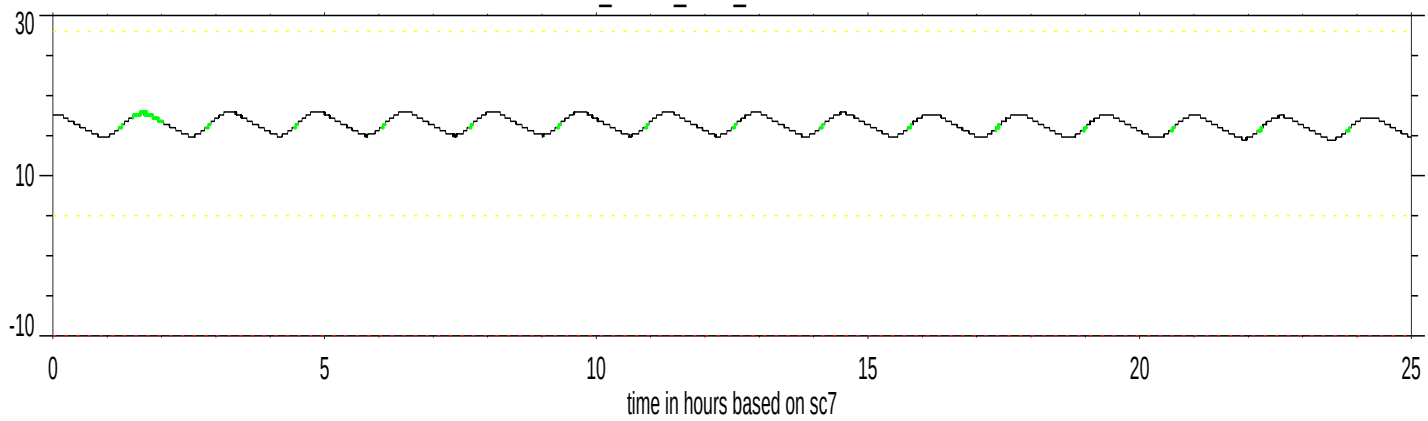
SEE_OP_HTR_CUR 2020240



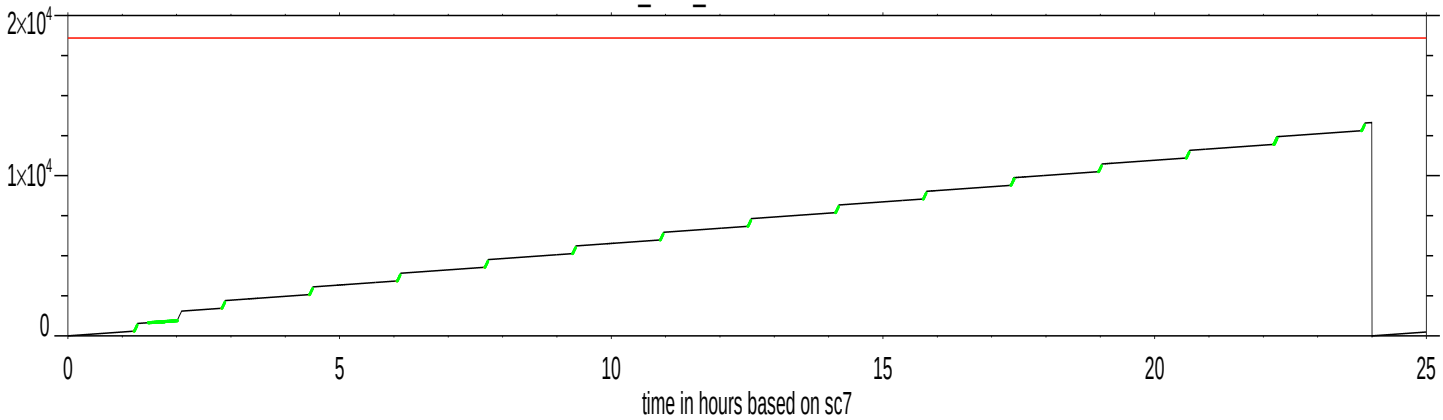
SSPP_BHND_XPS_TEMP 2020240



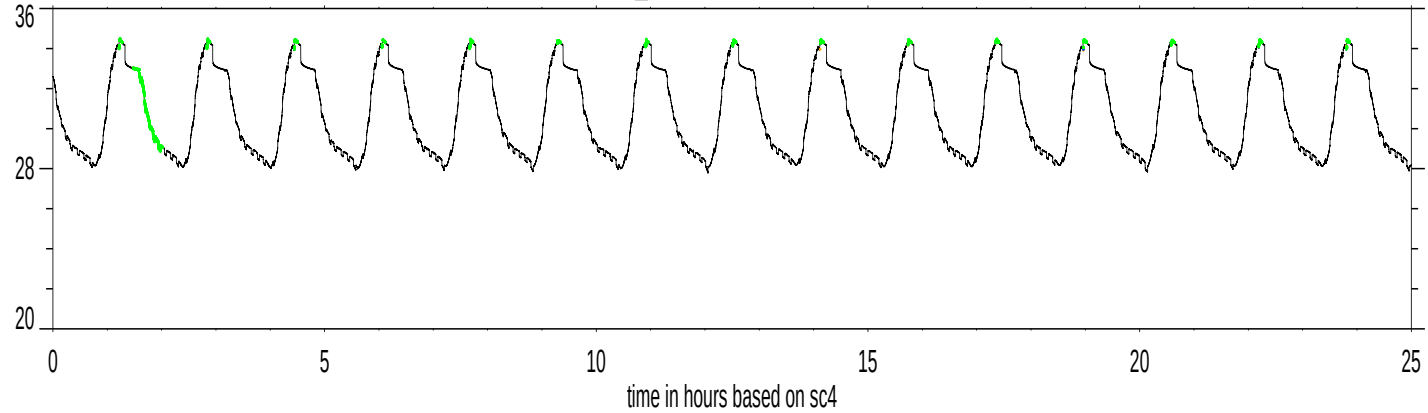
SSPP_BHND_MTR_TEMP 2020240



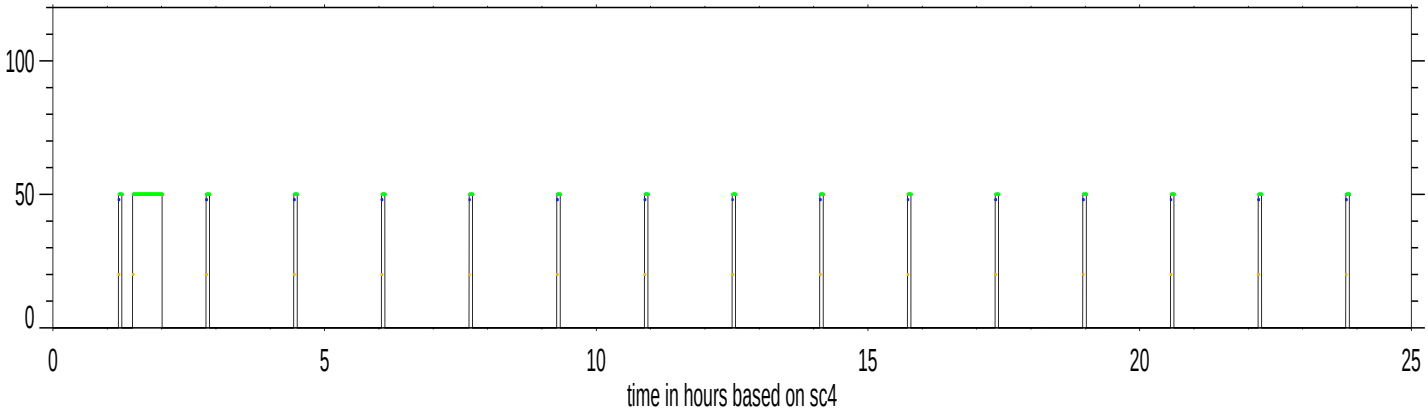
SEE_PKT_COUNT 2020240

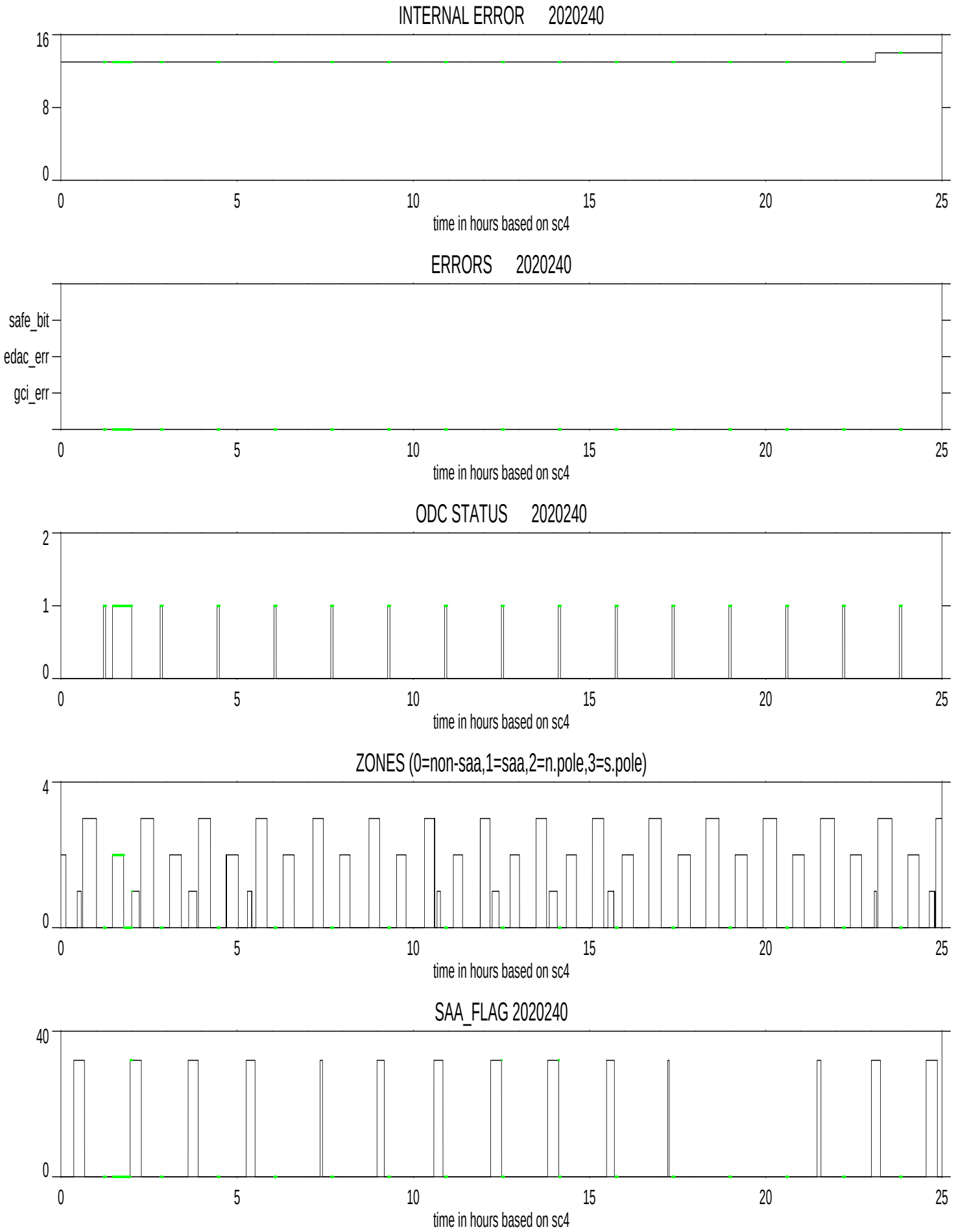


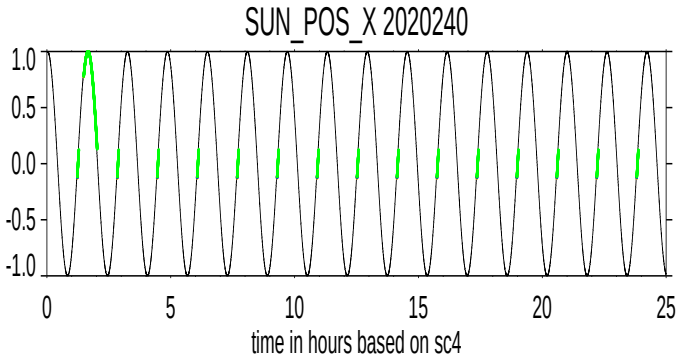
BUS_VOLTAGE 2020240

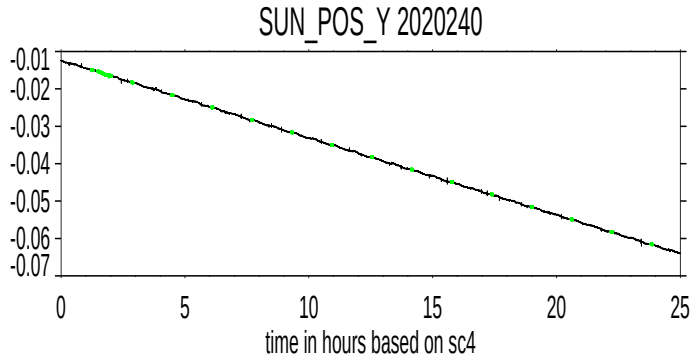


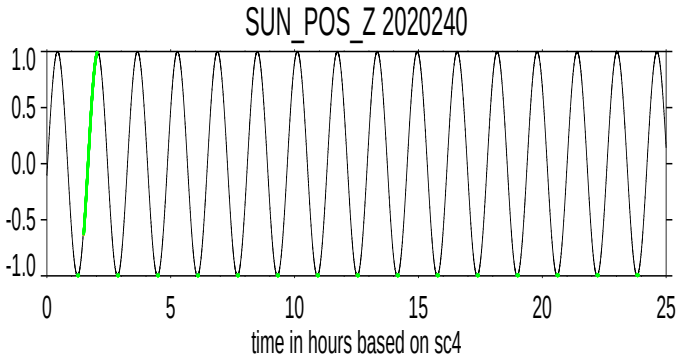
SEE_MU Operational Mode 2020240

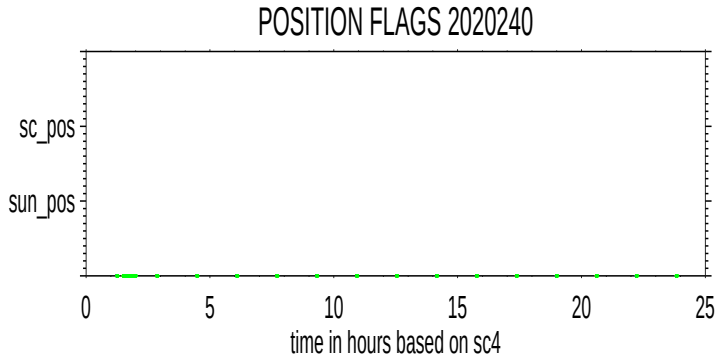


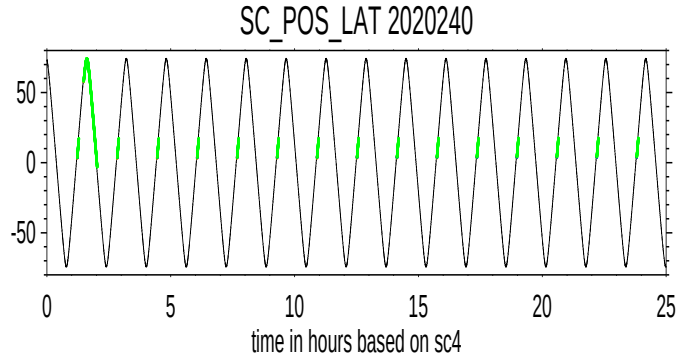

INTERNAL ERROR 2020240
16
8
0
0
5
10
15
20
25
time in hours based on sc4
ERRORS 2020240
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4
ODC STATUS 2020240
2
1
0
0
5
10
15
20
25
time in hours based on sc4
ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4
SAA_FLAG 2020240
40
0
0
5
10
15
20
25
time in hours based on sc4

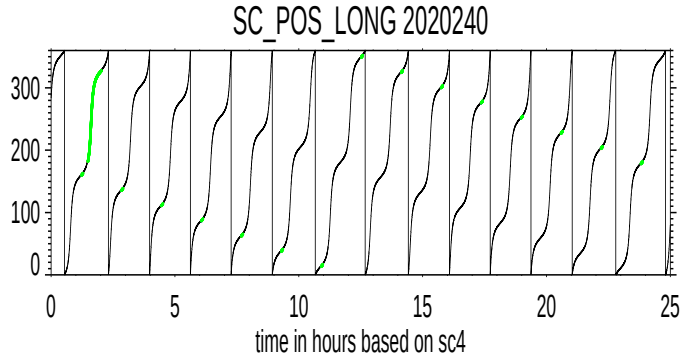

SUN_POS_X 2020240
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

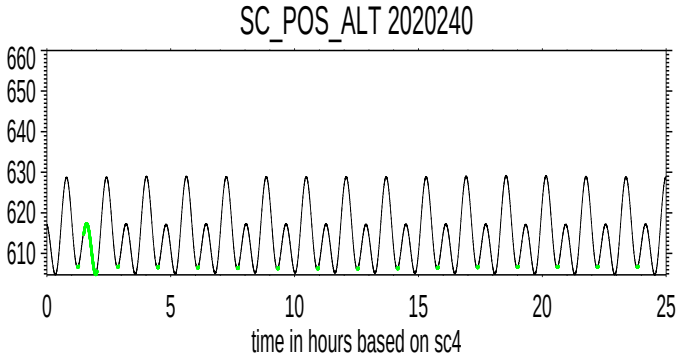

SUN_POS_Y 2020240
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
0
5
10
15
20
25
time in hours based on sc4

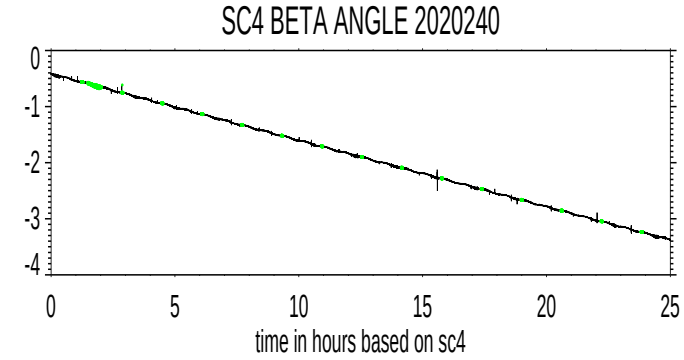

SUN_POS_Z 2020240
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020240
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020240
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020240
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020240
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020240
0
-1
-2
-3
-4
0
5
10
15
20
25
time in hours based on sc4