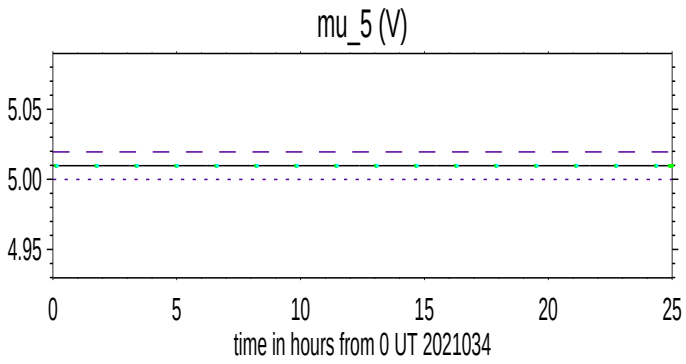
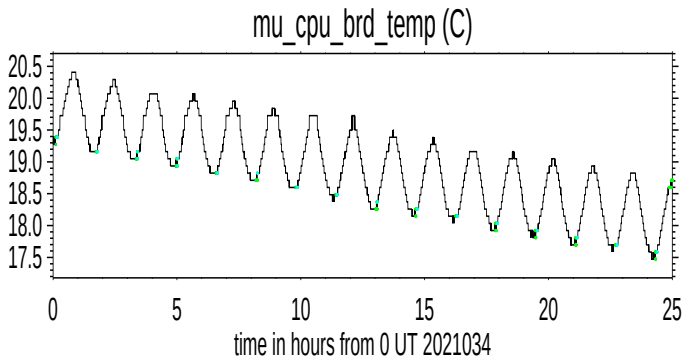
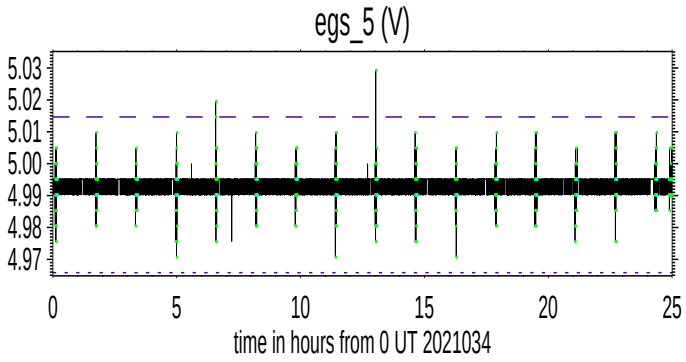
```
Information for      2021034
07:12:34.001: see_stat[1]: 15 internal error
17:58:16.002: see_stat[1]: 0 internal error
```

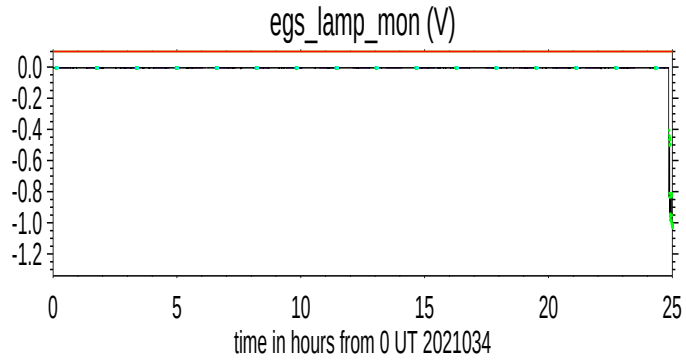
/export/timed/data/science_dp/tlm_limit/outoflimit_2021034_012.txt
Fri Mar 05 06:15:37 2021 1

RH OutOfLimit 1296345622 1296435614 hk.mu_cmd_pkt_reject


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2021034


mu_cpu_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
17.5
0
5
10
15
20
25
time in hours from 0 UT 2021034


egs_5 (V)
5.03
5.02
5.01
5.00
4.99
4.98
4.97
0
5
10
15
20
25
time in hours from 0 UT 2021034


egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
0
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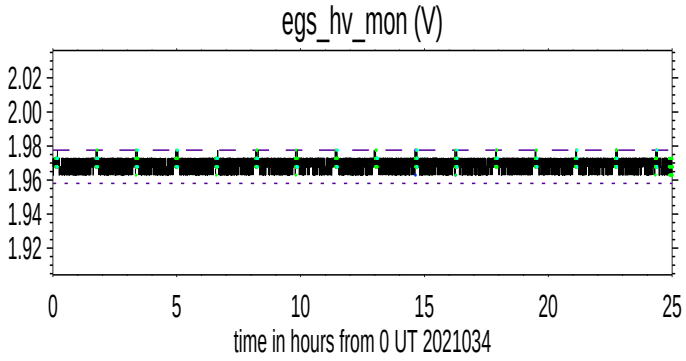
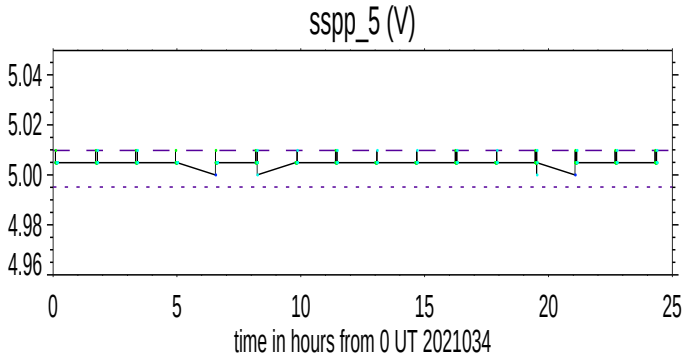
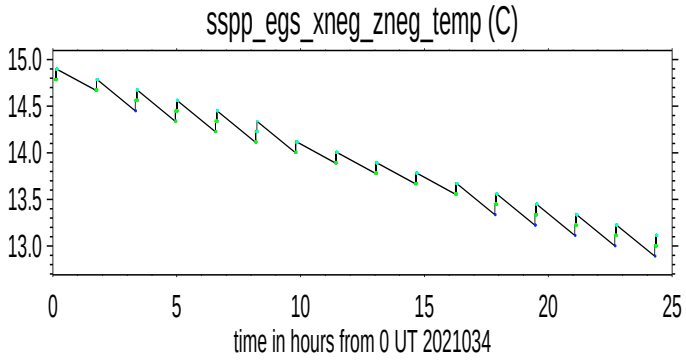
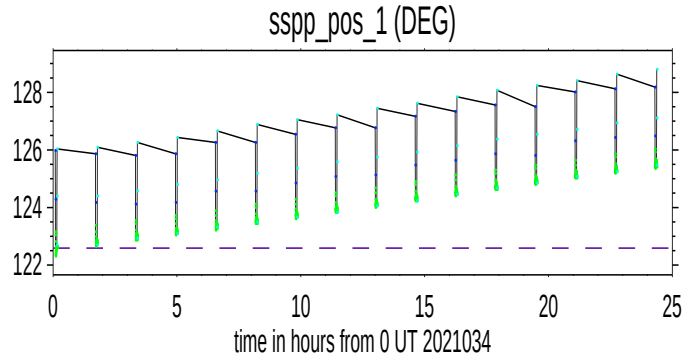
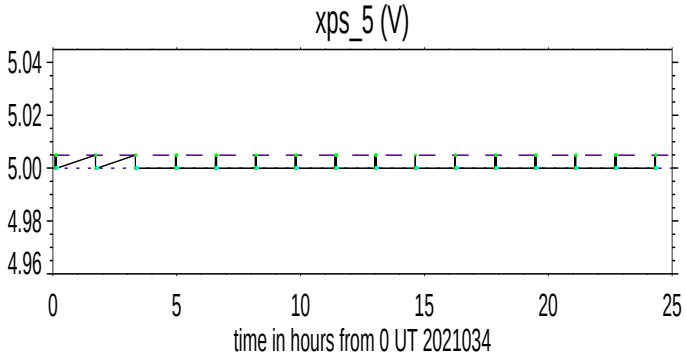
10
15
20
25
time in hours from 0 UT 2021034

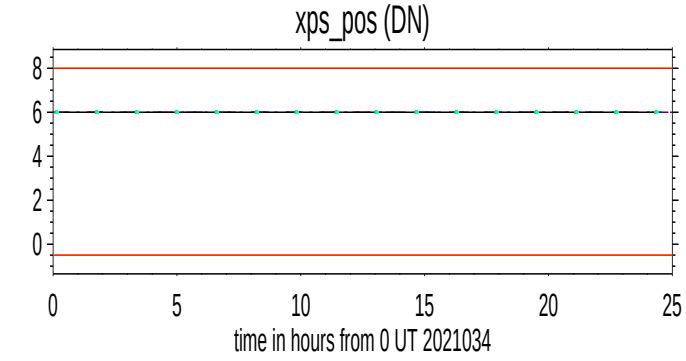

egs_hv_mon (V)
2.02
2.00
1.98
1.96
1.94
1.92
0
5
10
15
20
25
time in hours from 0 UT 2021034


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 2021034


sspp_egs_xneg_zneg_temp (C)
15.0
14.5
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2021034


sspp_pos_1 (DEG)
128
126
124
122
0
5
10
15
20
25
time in hours from 0 UT 2021034


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 2021034


xps_pos (DN)
8
6
4
2
0
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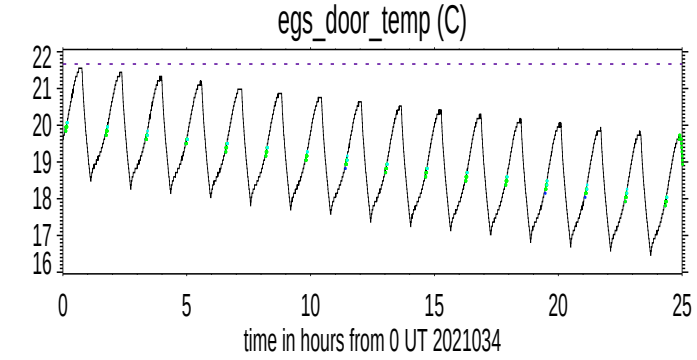
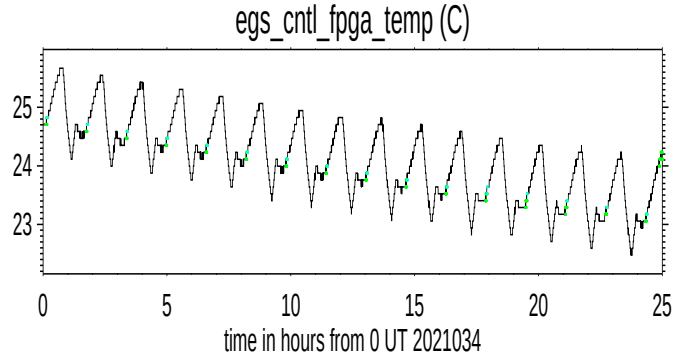
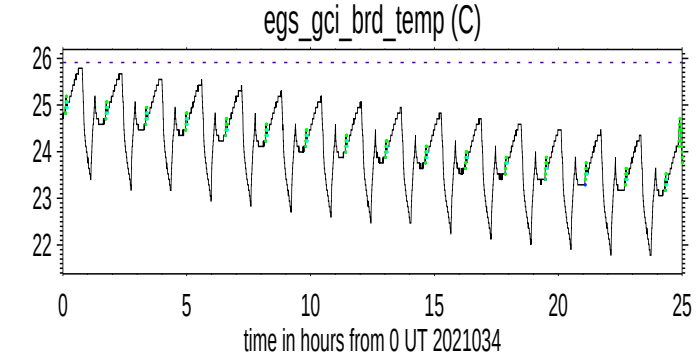
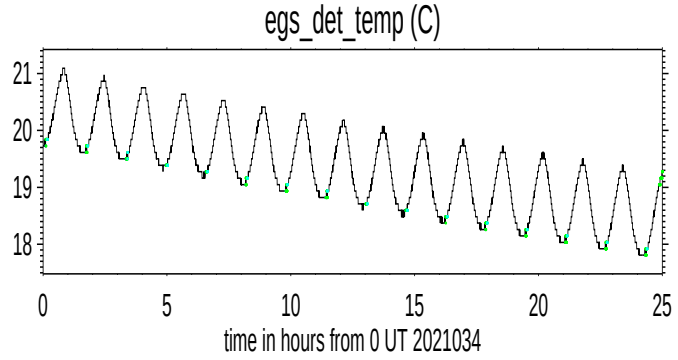
5
10
15
20
25
time in hours from 0 UT 2021034


egs_door_temp (C)
22
21
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2021034


egs_cntl_fpga_temp (C)
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2021034


egs_gci_brd_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021034


egs_det_temp (C)
21
20
19
18
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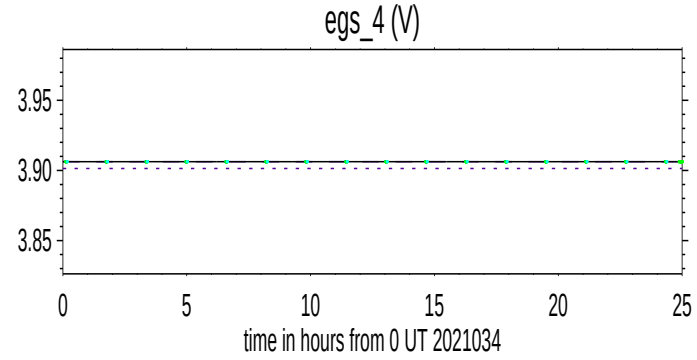
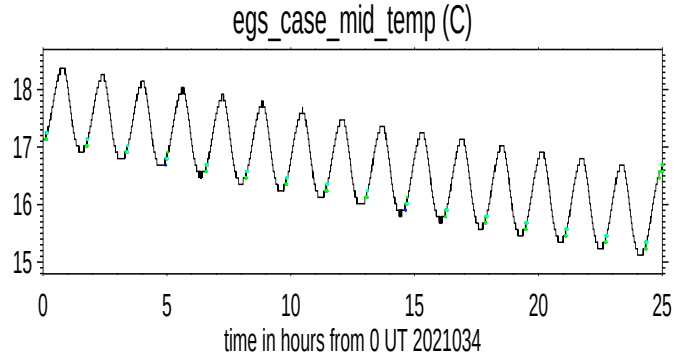
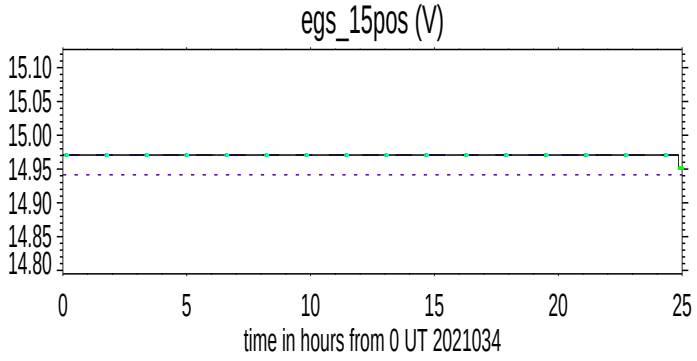
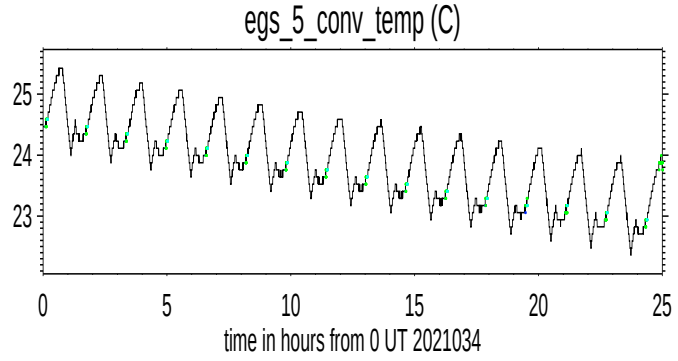
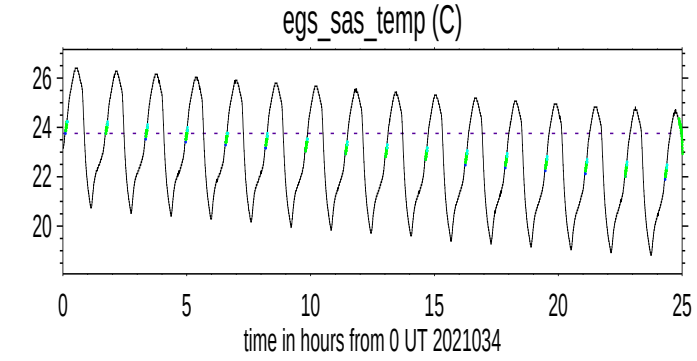
5
10
15
20
25
time in hours from 0 UT 2021034

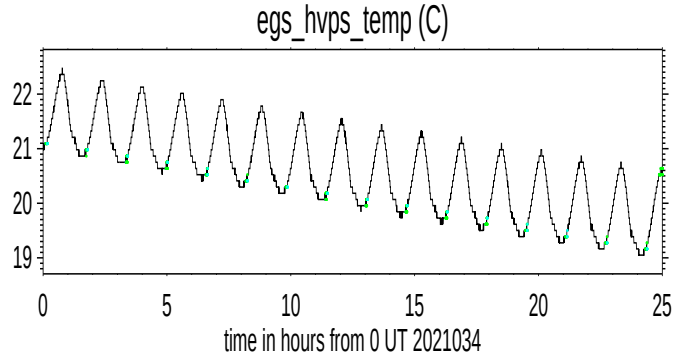

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021034

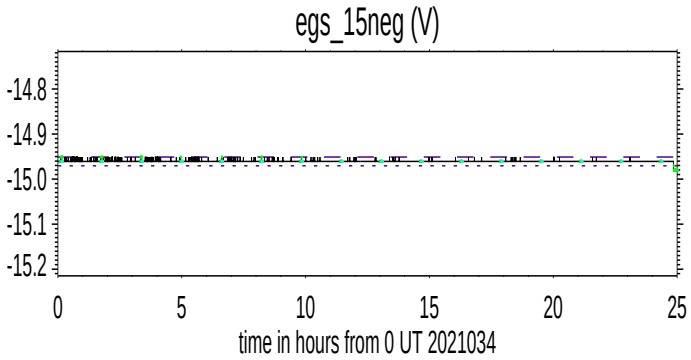

egs_case_mid_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021034

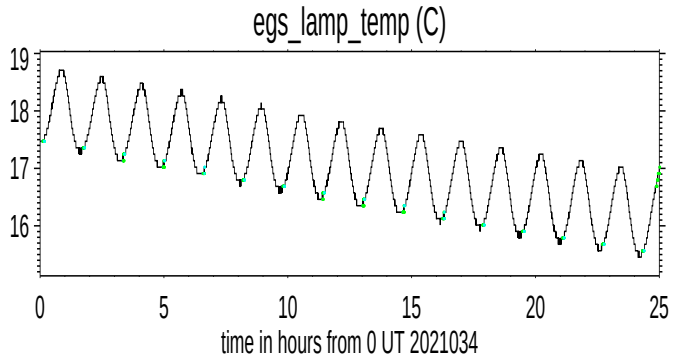

egs_15pos (V)
15.10
15.05
15.00
14.95
14.90
14.85
14.80
0
5
10
15
20
25
time in hours from 0 UT 2021034

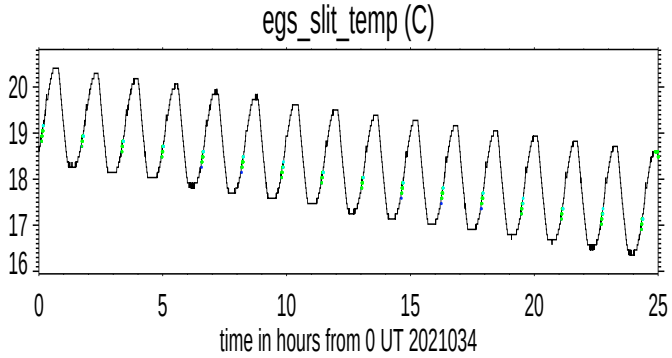

egs_5_conv_temp (C)
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2021034

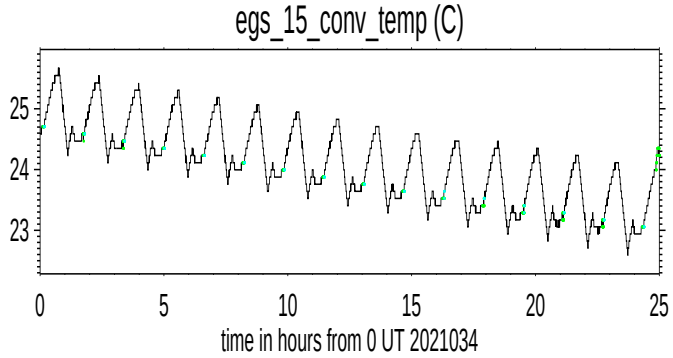

egs_sas_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021034

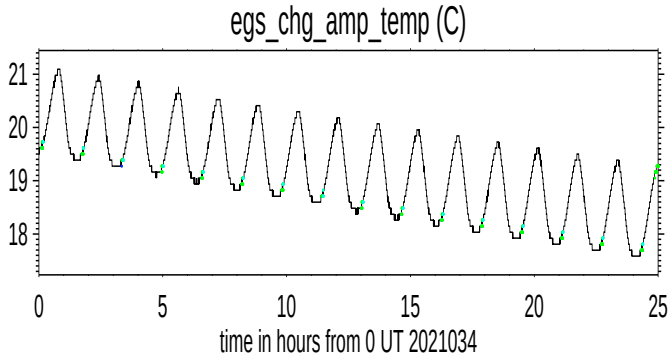

egs_hvps_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021034

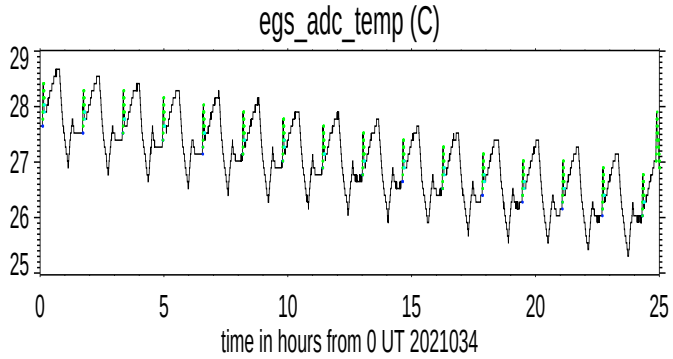

egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0 5 10 15 20 25
time in hours from 0 UT 2021034

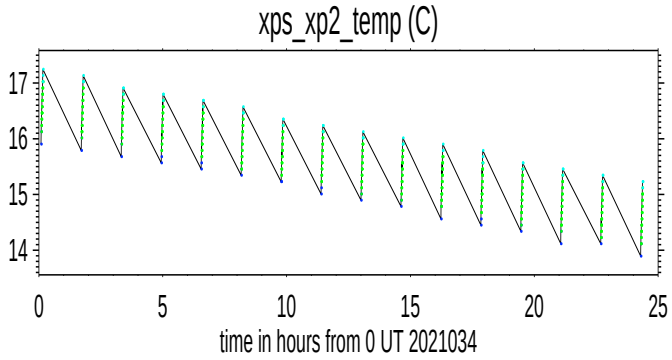

egs_lamp_temp (C)
19
18
17
16
0 5 10 15 20 25
time in hours from 0 UT 2021034

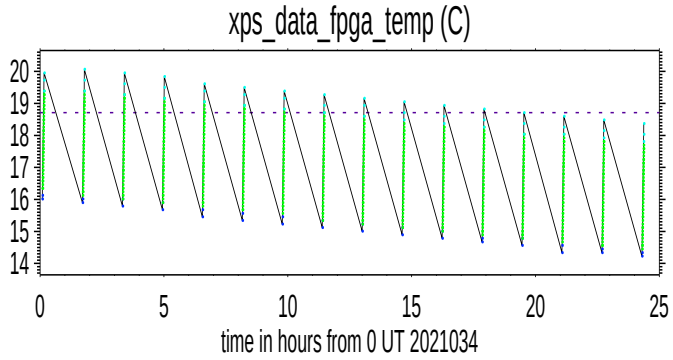

egs_slit_temp (C)
20
19
18
17
16
0 5 10 15 20 25
time in hours from 0 UT 2021034

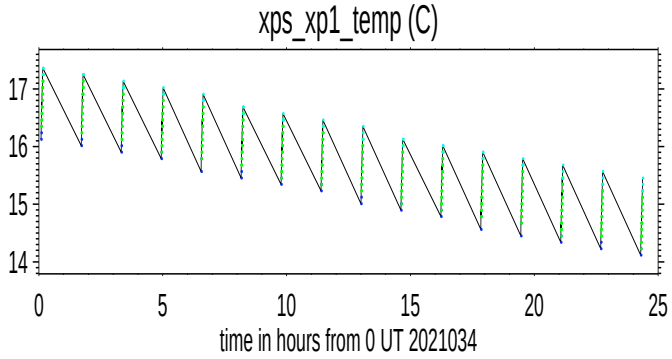

egs_15_conv_temp (C)
25
24
23
0 5 10 15 20 25
time in hours from 0 UT 2021034

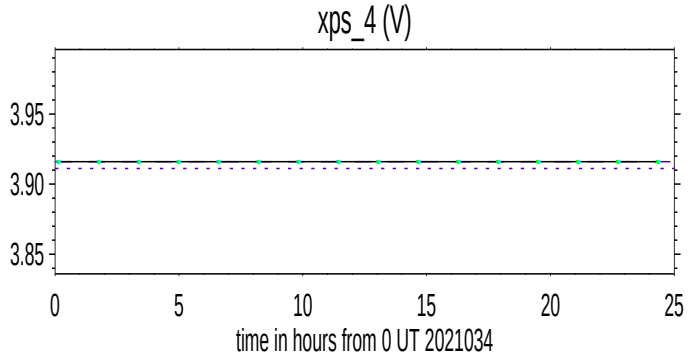

egs_chg_amp_temp (C)
21
20
19
18
0 5 10 15 20 25
time in hours from 0 UT 2021034

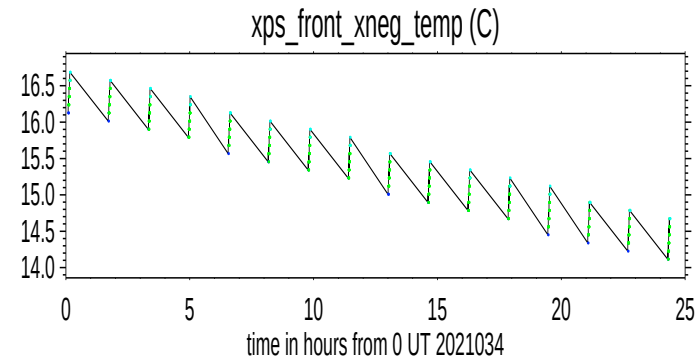

egs_adc_temp (C)
29
28
27
26
25
0 5 10 15 20 25
time in hours from 0 UT 2021034


xps_xp2_temp (C)
17
16
15
14
0 5 10 15 20 25
time in hours from 0 UT 2021034


xps_data_fpga_temp (C)
20
19
18
17
16
15
14
0 5 10 15 20 25
time in hours from 0 UT 2021034


xps_xp1_temp (C)
17
16
15
14
0 5 10 15 20 25
time in hours from 0 UT 2021034


xps_4 (V)
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2021034


xps_front_xneg_temp (C)
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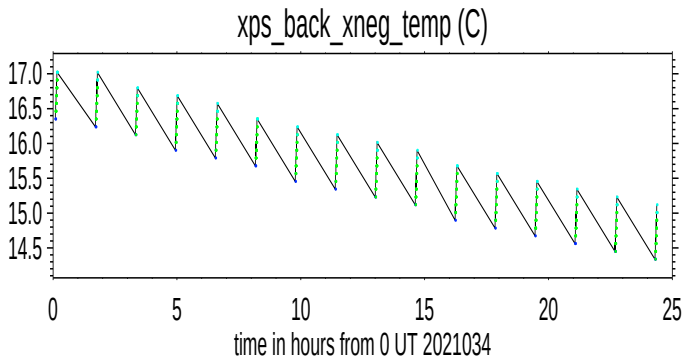
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_back_xneg_temp (C)
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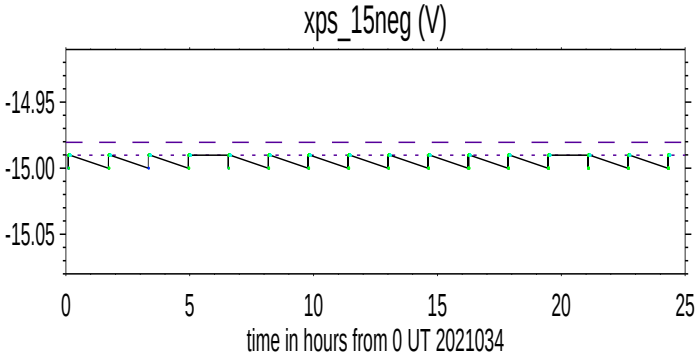
16.5
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_15neg (V)
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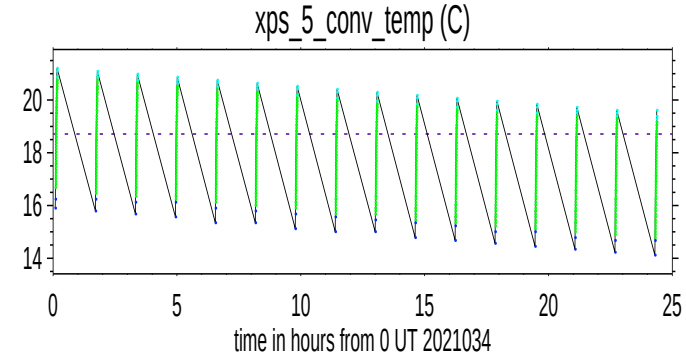
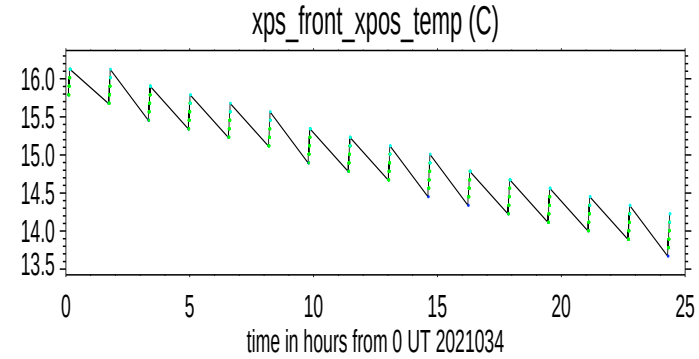
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_front_xpos_temp (C)
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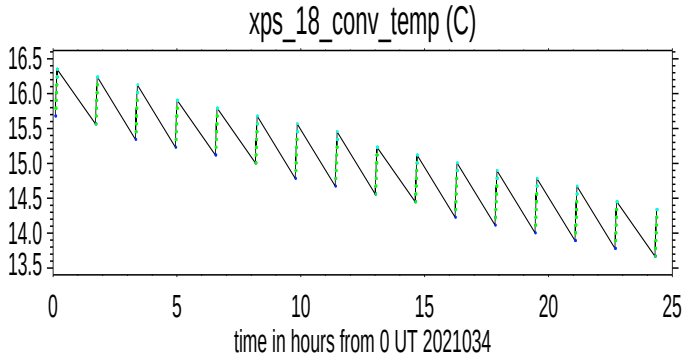
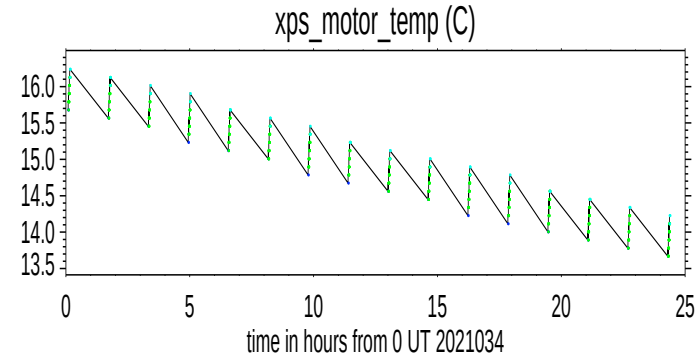
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_18_conv_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_motor_temp (C)
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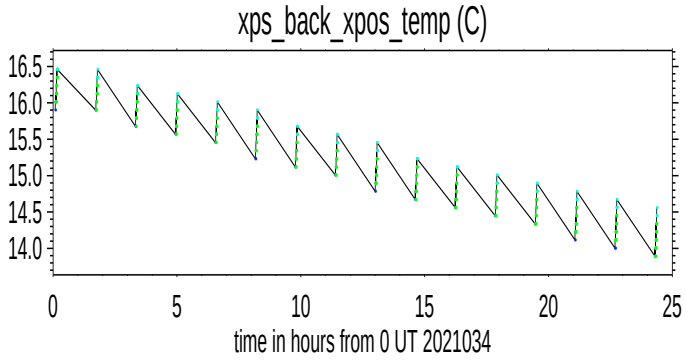
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021034


xps_back_xpos_temp (C)
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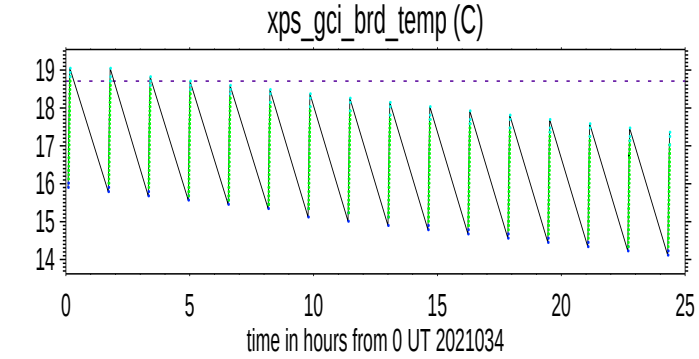
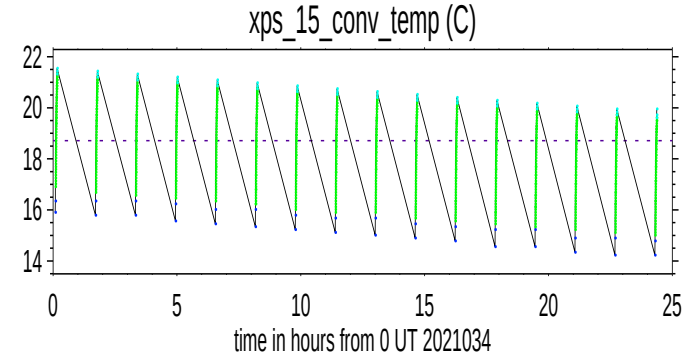
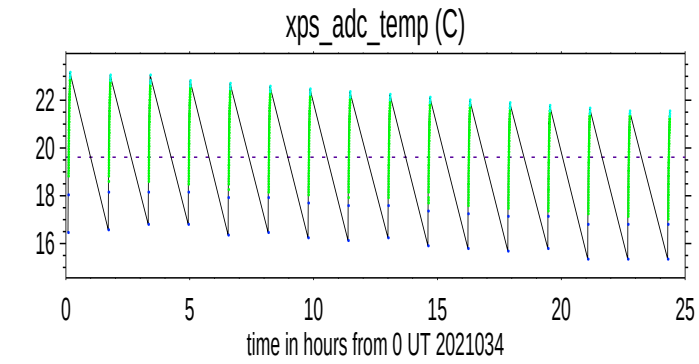
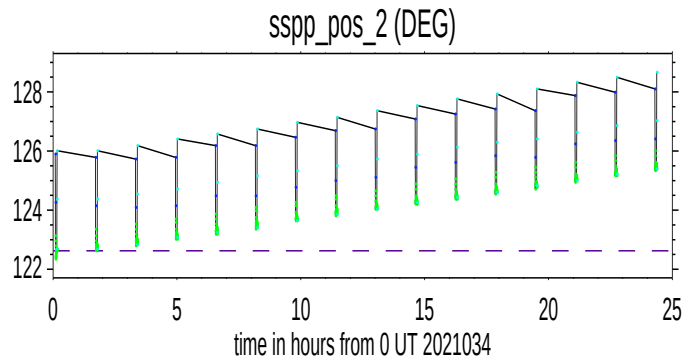
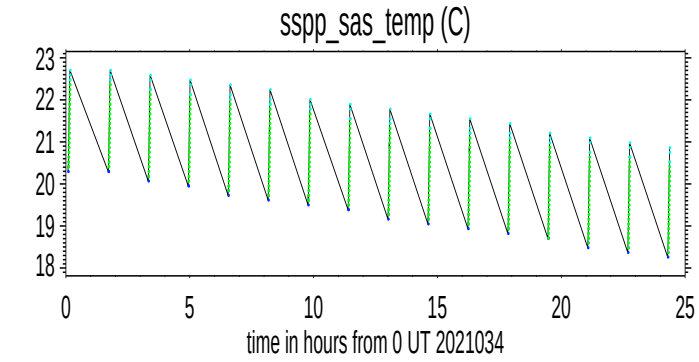
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

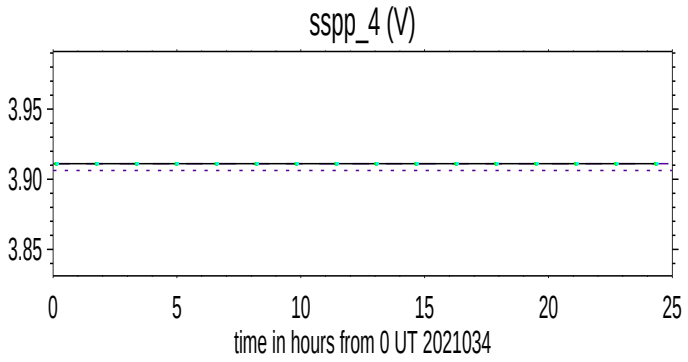

xps_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

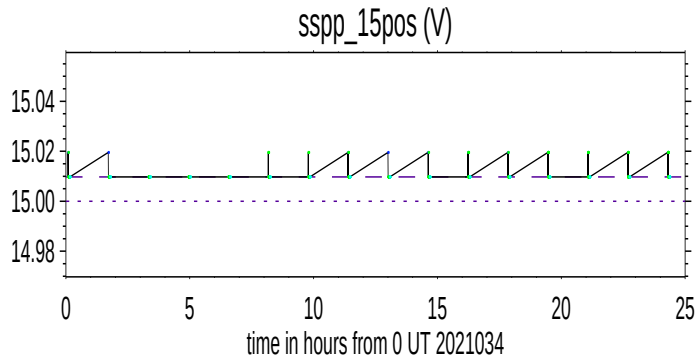

xps_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

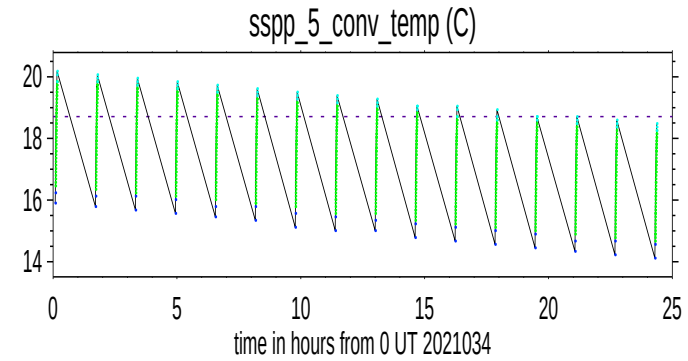

xps_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021034

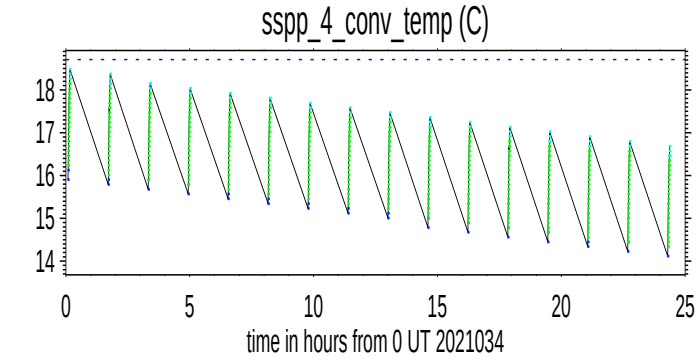

sspp_pos_2 (DEG)
128
126
124
122
0
5
10
15
20
25
time in hours from 0 UT 2021034

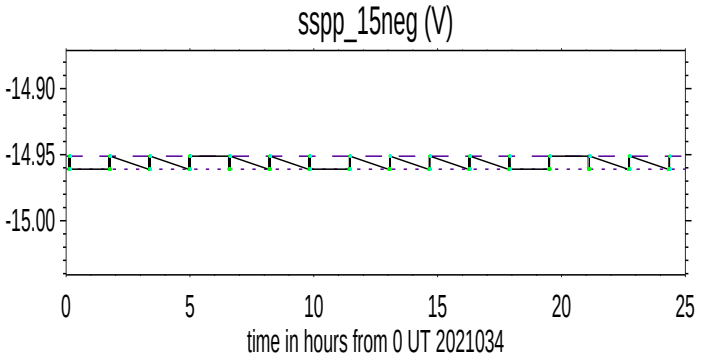

sspp_sas_temp (C)
23
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021034

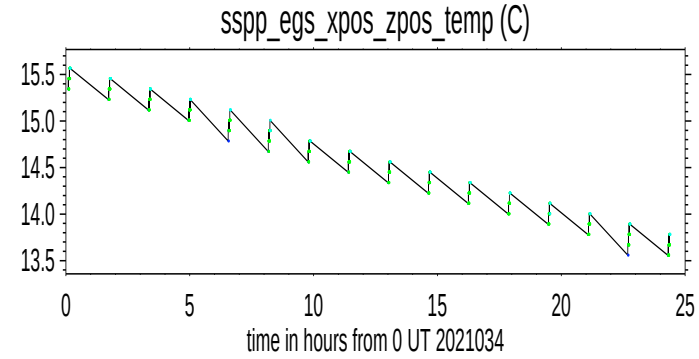

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021034

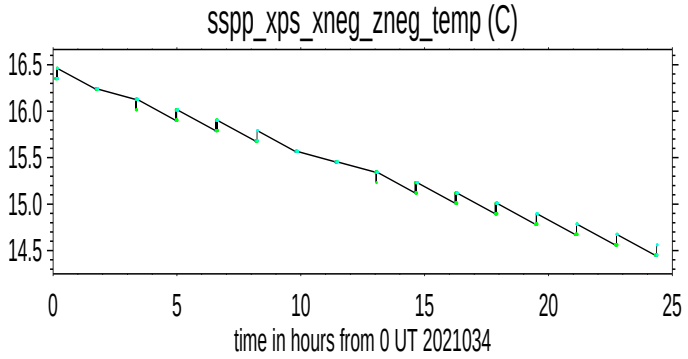

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021034

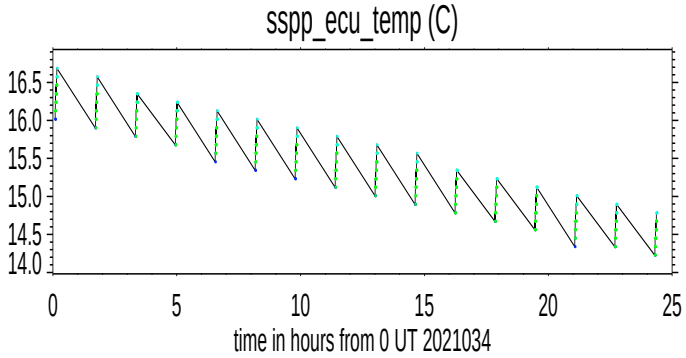

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

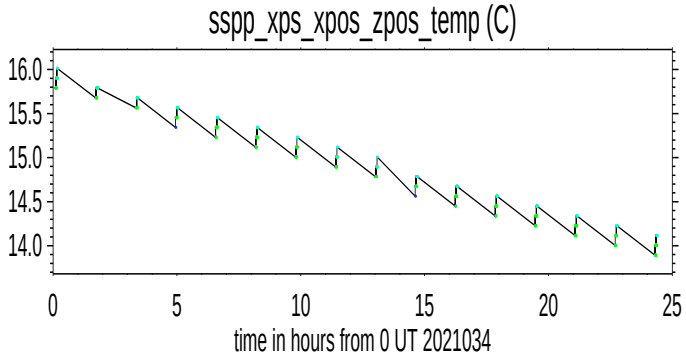

sspp_4_conv_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

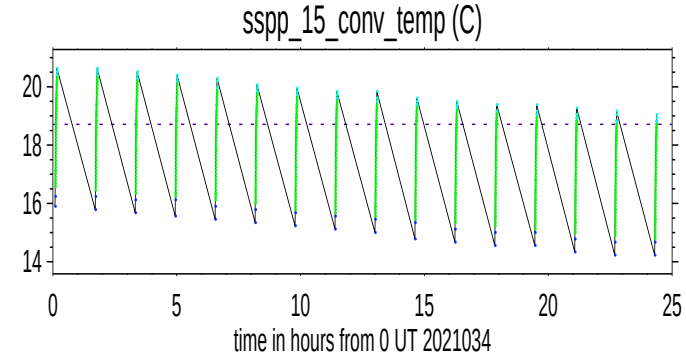

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021034

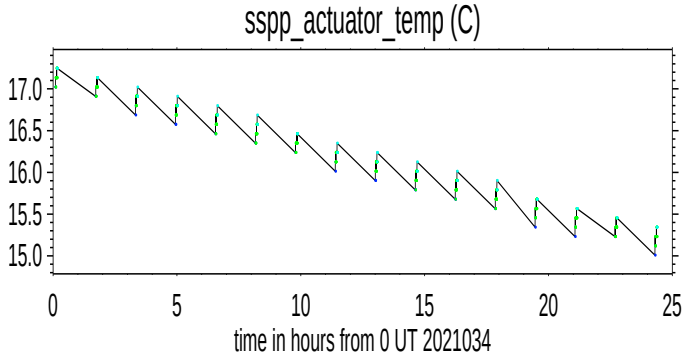

sspp_egs_xpos_zpos_temp (C)
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021034

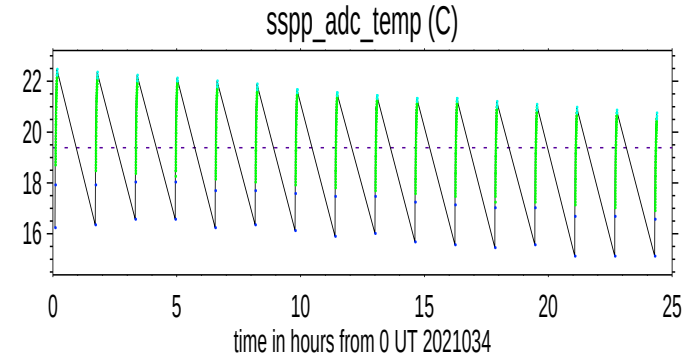

sspp_xps_xneg_zneg_temp (C)
16.5
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021034

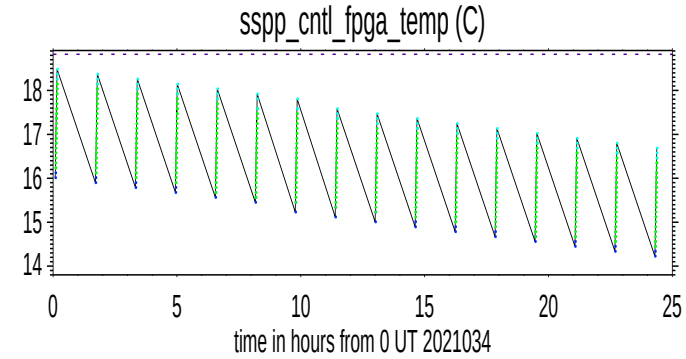

sspp_ecu_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

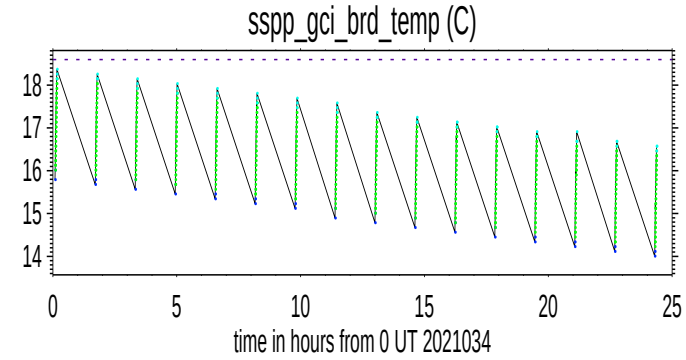

sspp_xps_xpos_zpos_temp (C)
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

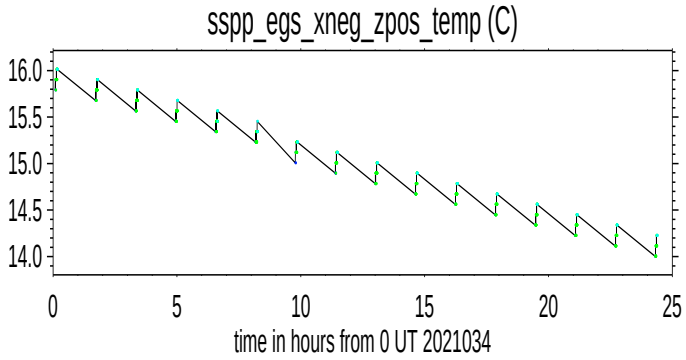

sspp_15_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

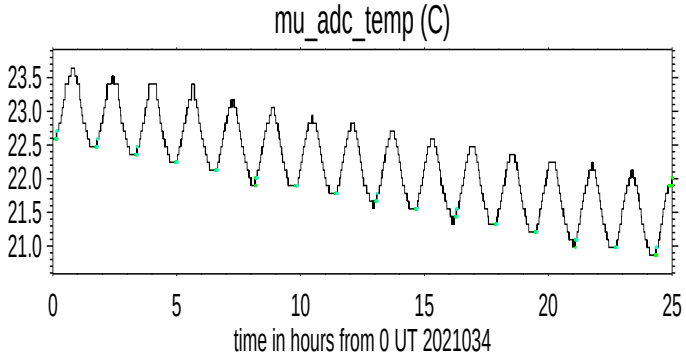

sspp_actuator_temp (C)
17.0
16.5
16.0
15.5
15.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

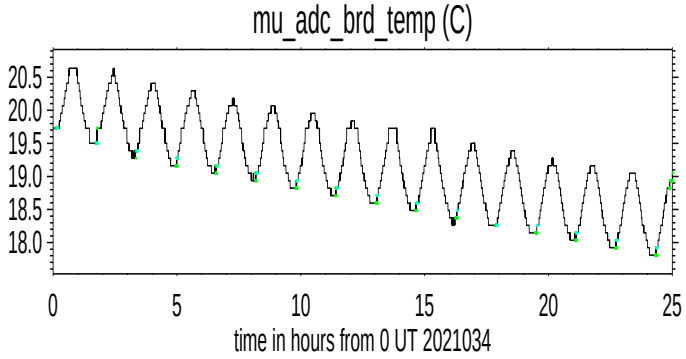

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021034

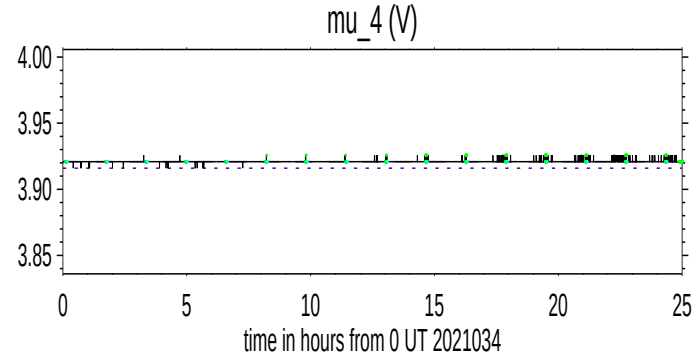

sspp_cntl_fpga_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

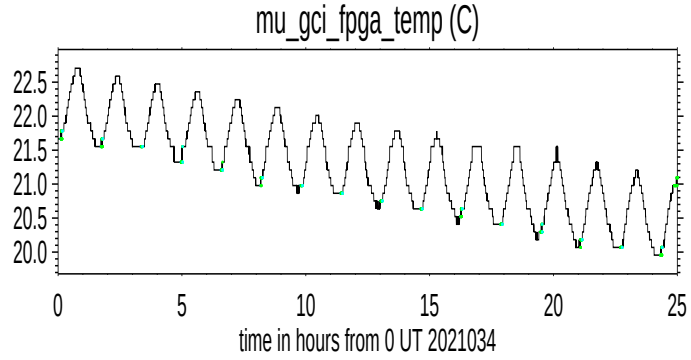

sspp_gci_brd_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021034

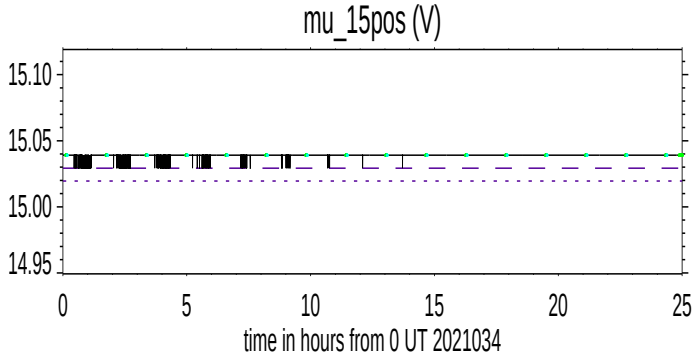

sspp_egs_xneg_zpos_temp (C)
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

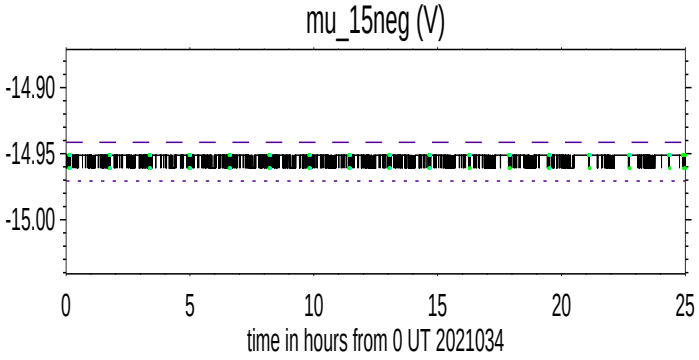

mu_adc_temp (C)
23.5
23.0
22.5
22.0
21.5
21.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

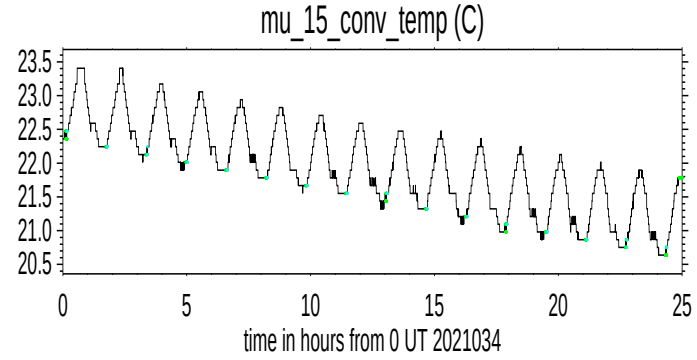

mu_adc_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

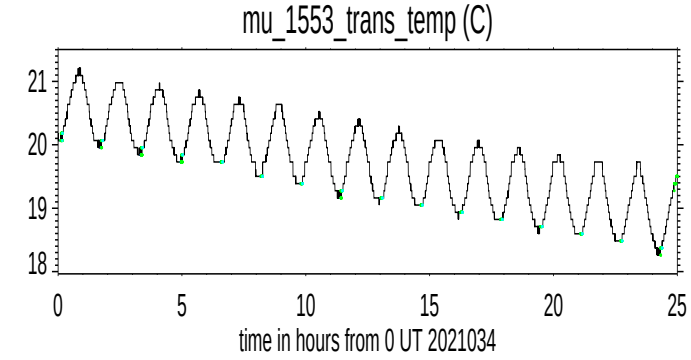

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021034

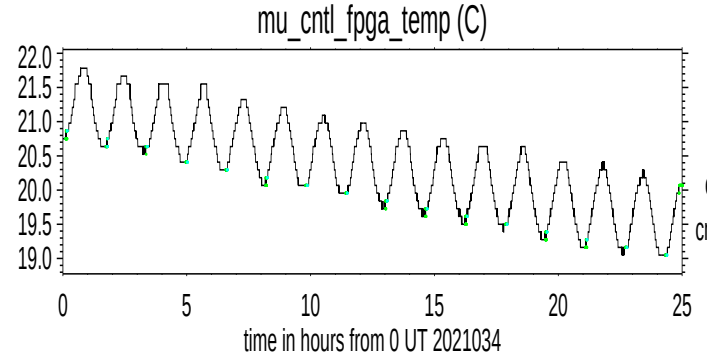

mu_gci_fpga_temp (C)
22.5
22.0
21.5
21.0
20.5
20.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

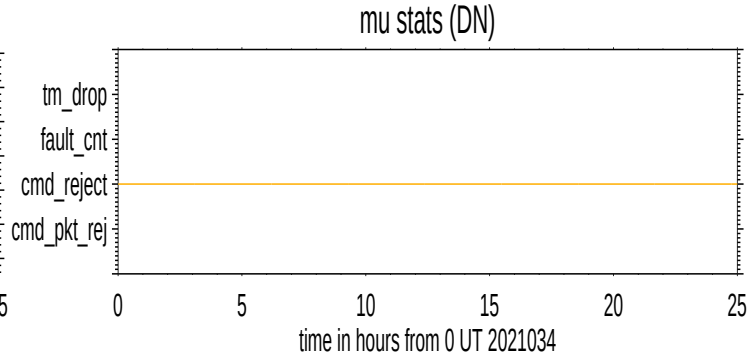

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2021034

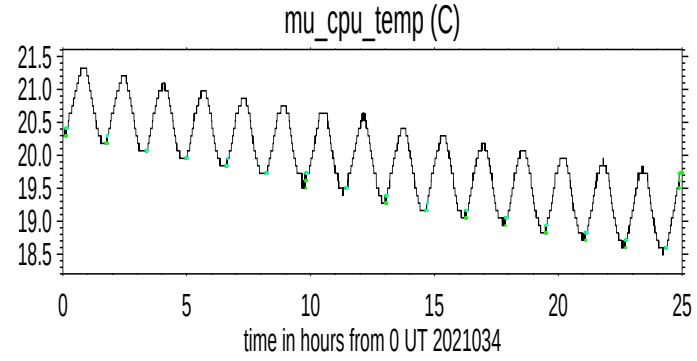

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021034

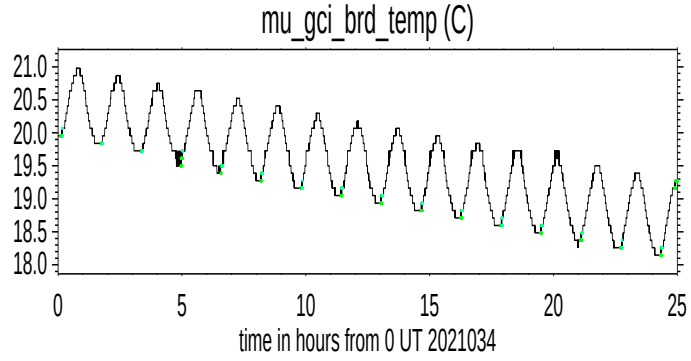

mu_15_conv_temp (C)
23.5
23.0
22.5
22.0
21.5
21.0
20.5
0
5
10
15
20
25
time in hours from 0 UT 2021034

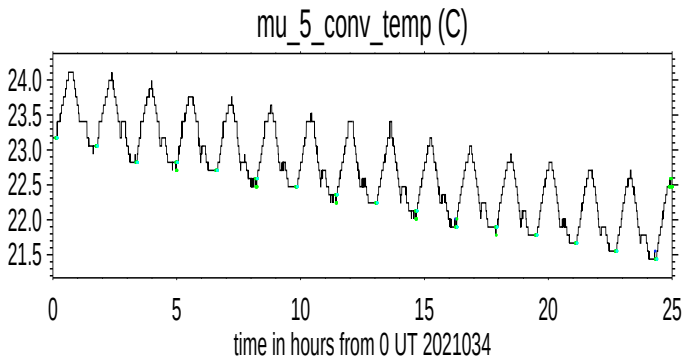

mu_1553_trans_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021034

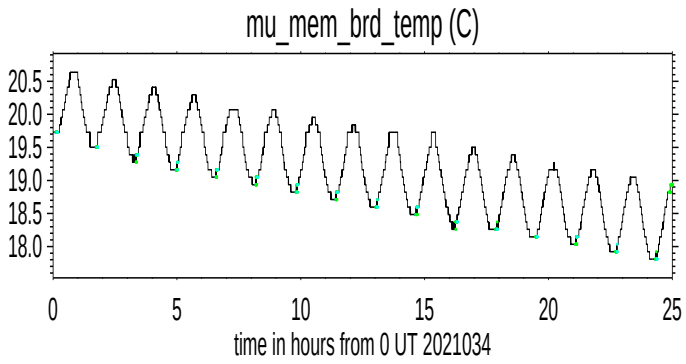

mu_cntl_fpga_temp (C)
22.0
21.5
21.0
20.5
20.0
19.5
19.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

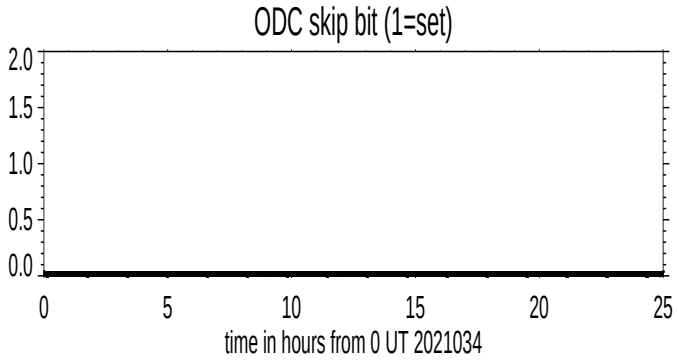

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2021034

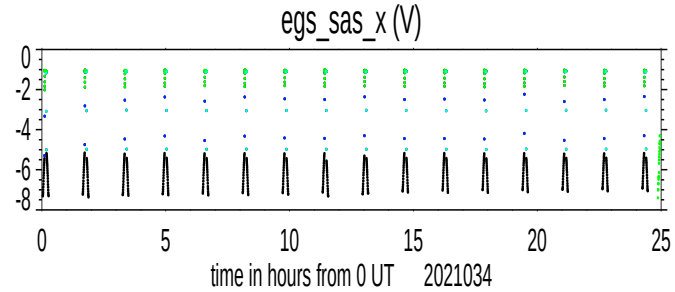

mu_cpu_temp (C)
21.5
21.0
20.5
20.0
19.5
19.0
18.5
0
5
10
15
20
25
time in hours from 0 UT 2021034

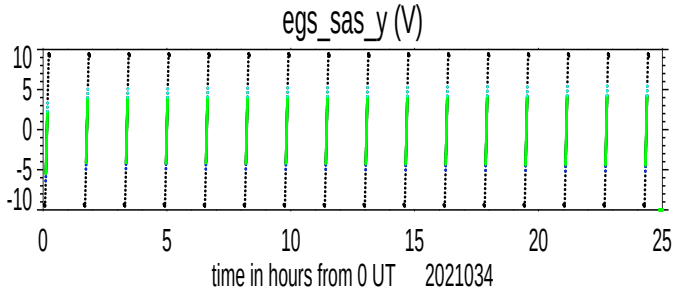

mu_gci_brd_temp (C)
21.0
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

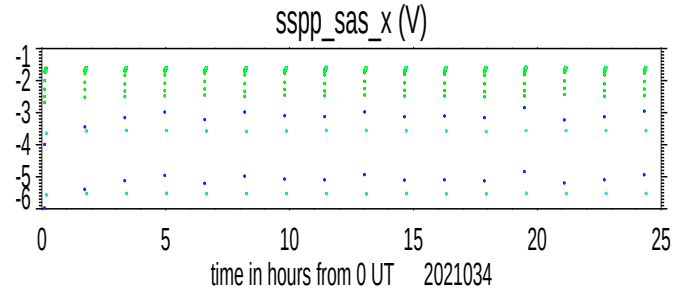

mu_5_conv_temp (C)
24.0
23.5
23.0
22.5
22.0
21.5
0
5
10
15
20
25
time in hours from 0 UT 2021034

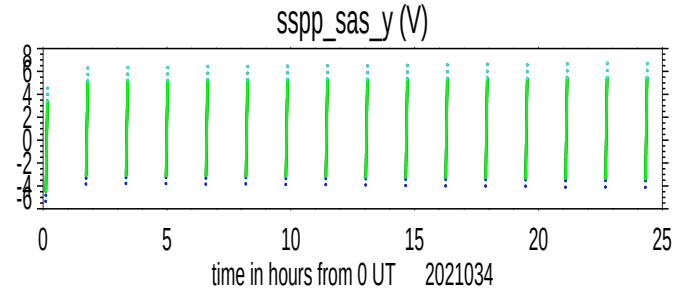

mu_mem_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

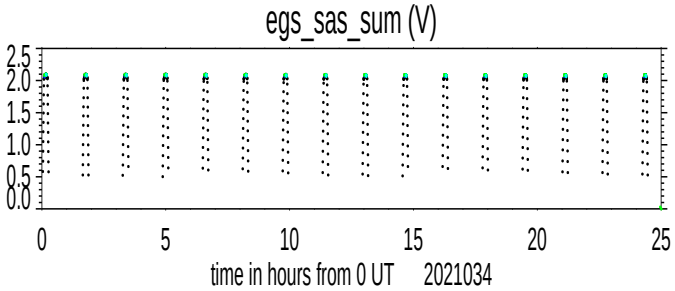

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021034

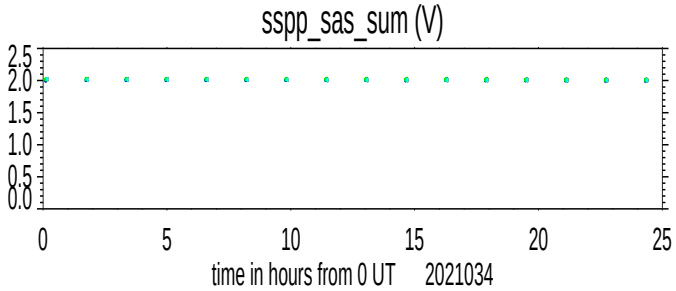

egs_sas_x (V)
time in hours from 0 UT 2021034

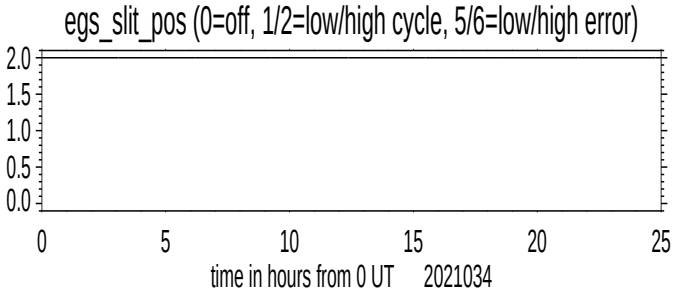

egs_sas_y (V)
time in hours from 0 UT 2021034

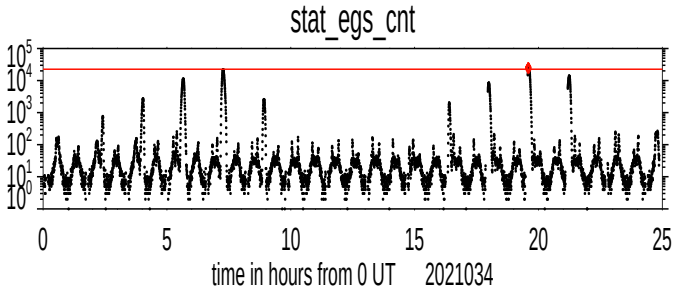

sspp_sas_x (V)
time in hours from 0 UT 2021034

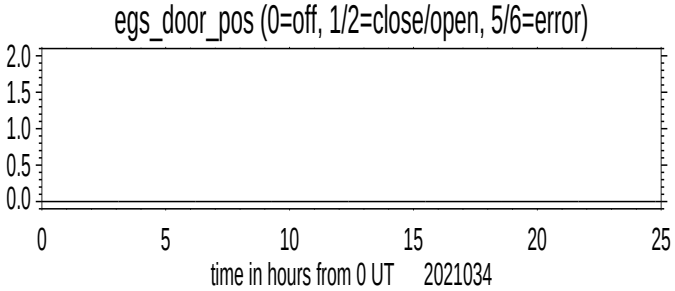

sspp_sas_y (V)
time in hours from 0 UT 2021034

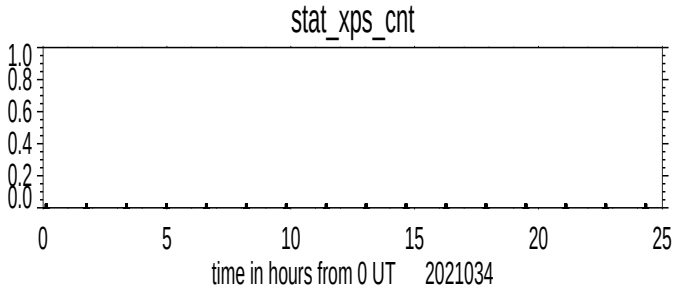

egs_sas_sum (V)
time in hours from 0 UT 2021034

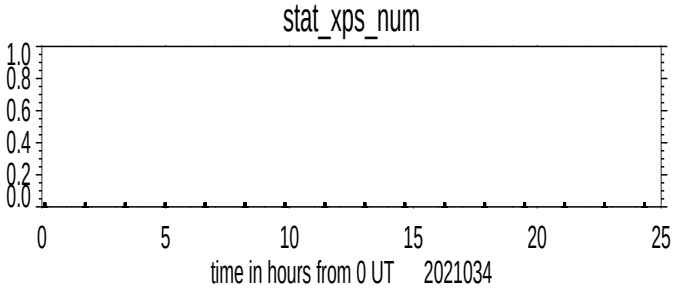

sspp_sas_sum (V)
time in hours from 0 UT 2021034

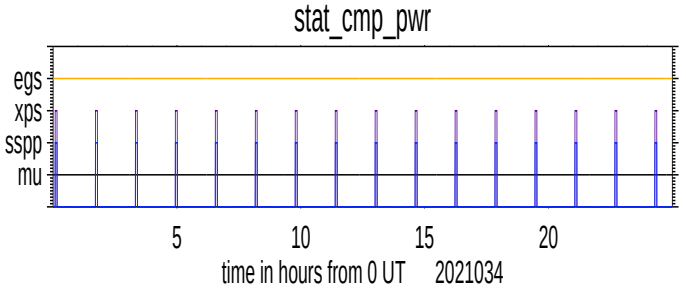

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021034


stat_egs_cnt
time in hours from 0 UT 2021034

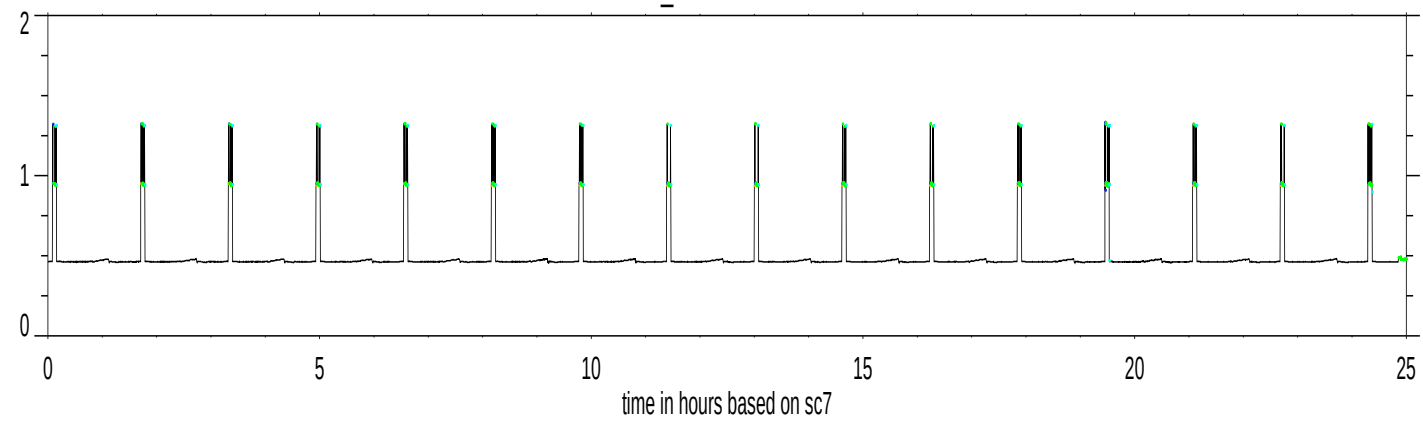

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021034


stat_xps_cnt
time in hours from 0 UT 2021034

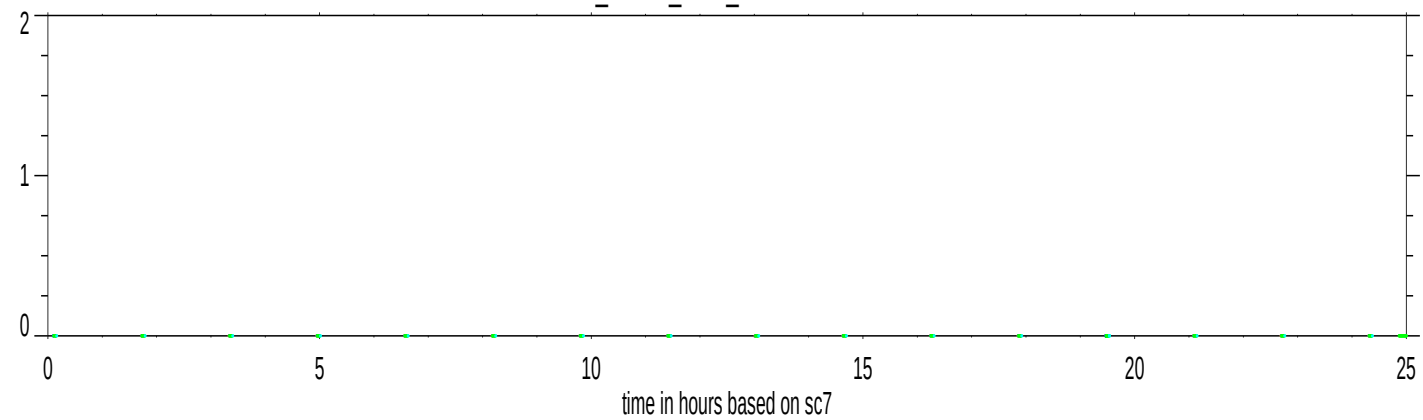

stat_xps_num
time in hours from 0 UT 2021034


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021034

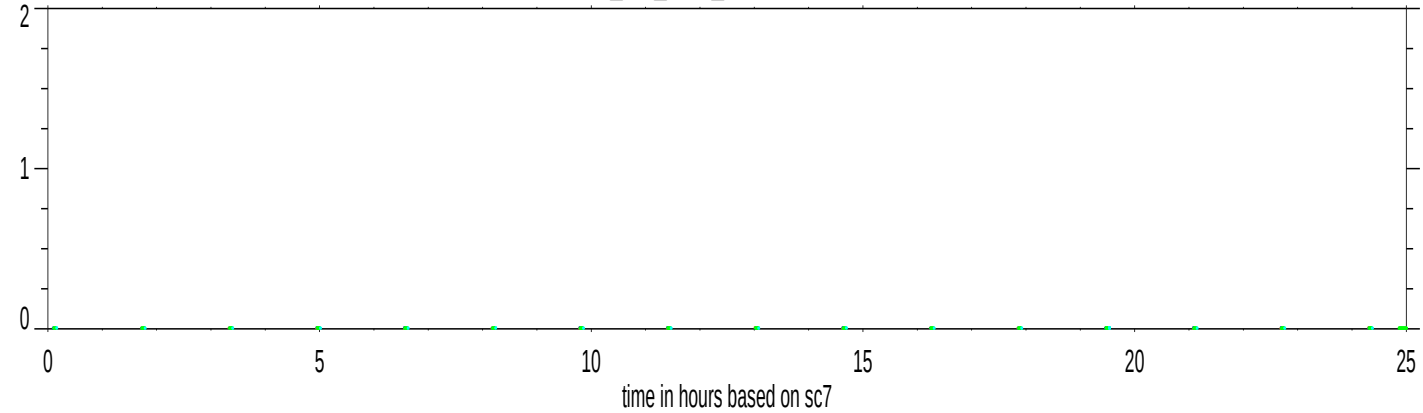
SEE_CUR 2021034



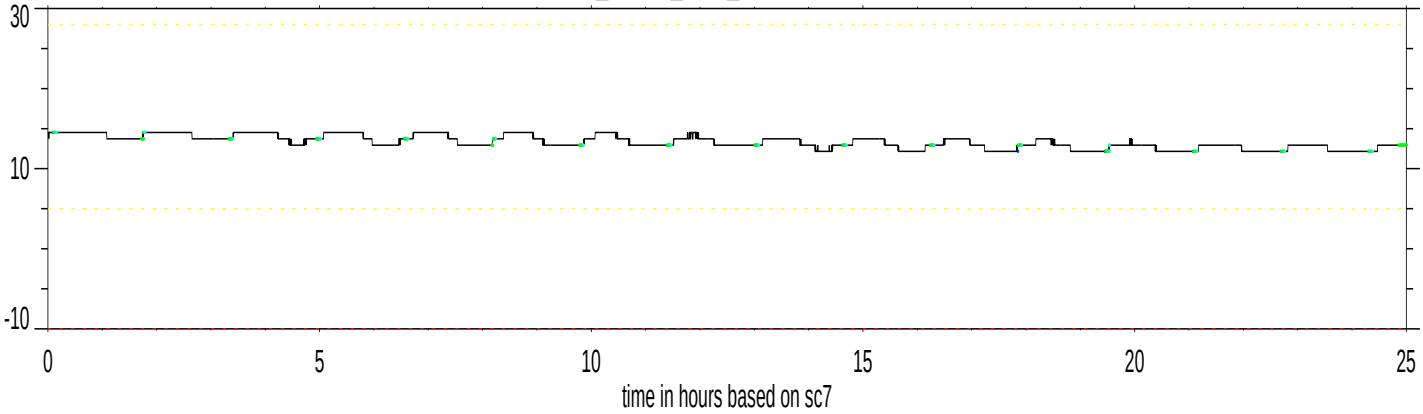
SEE_SURV_HTR_CUR 2021034



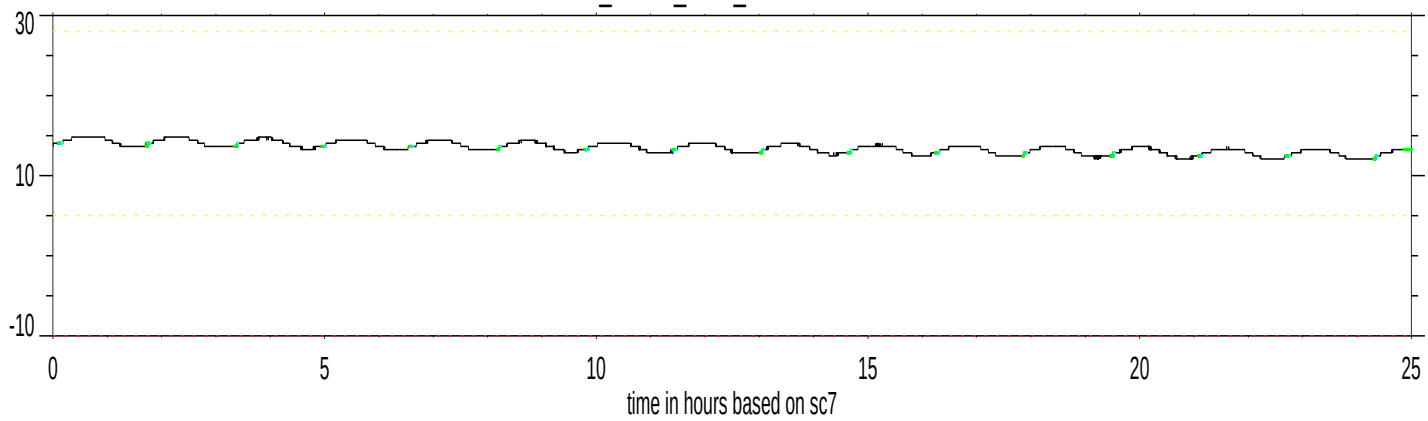
SEE_OP_HTR_CUR 2021034



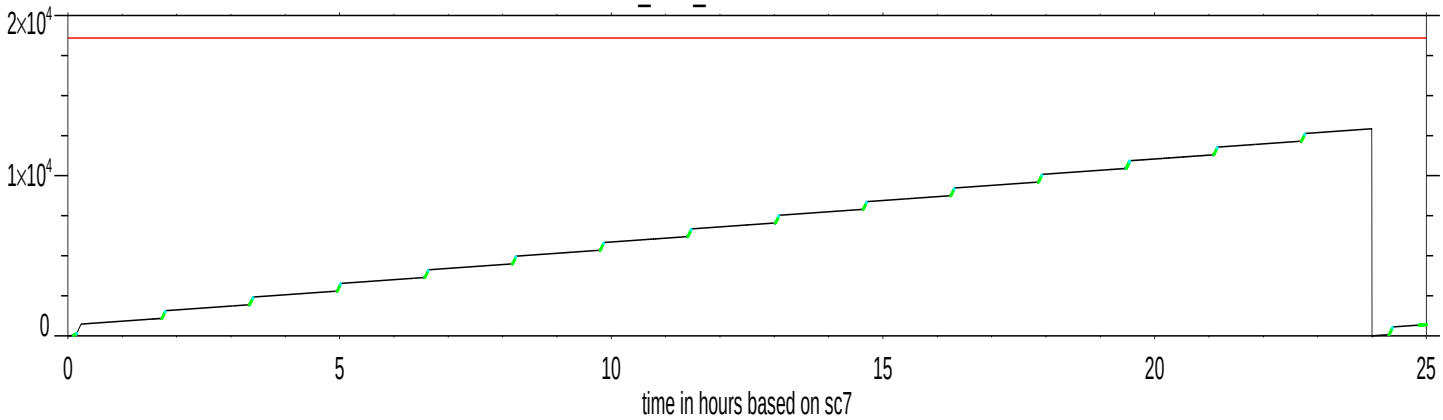
SSPP_BHND_XPS_TEMP 2021034



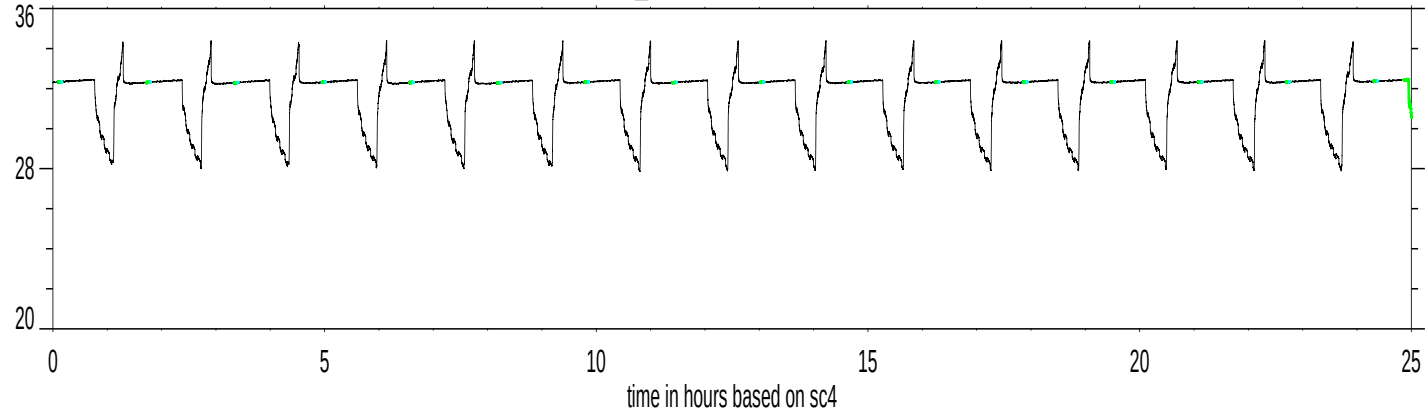
SSPP_BHND_MTR_TEMP 2021034



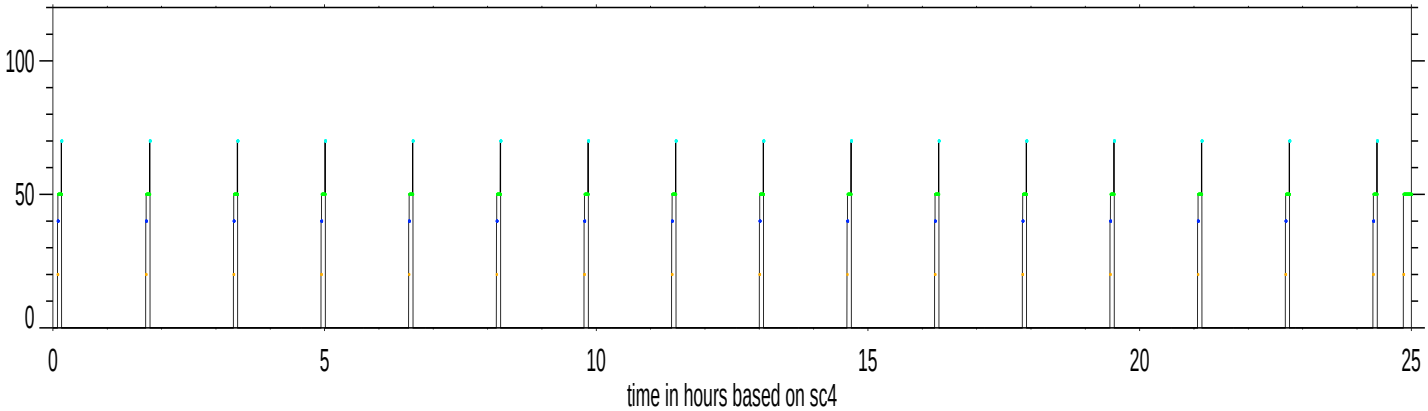
SEE_PKT_COUNT 2021034

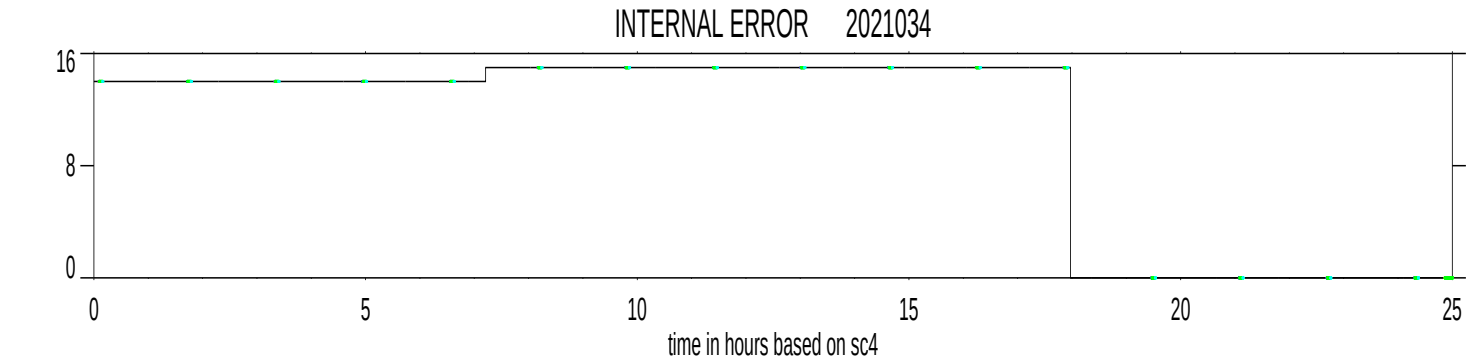


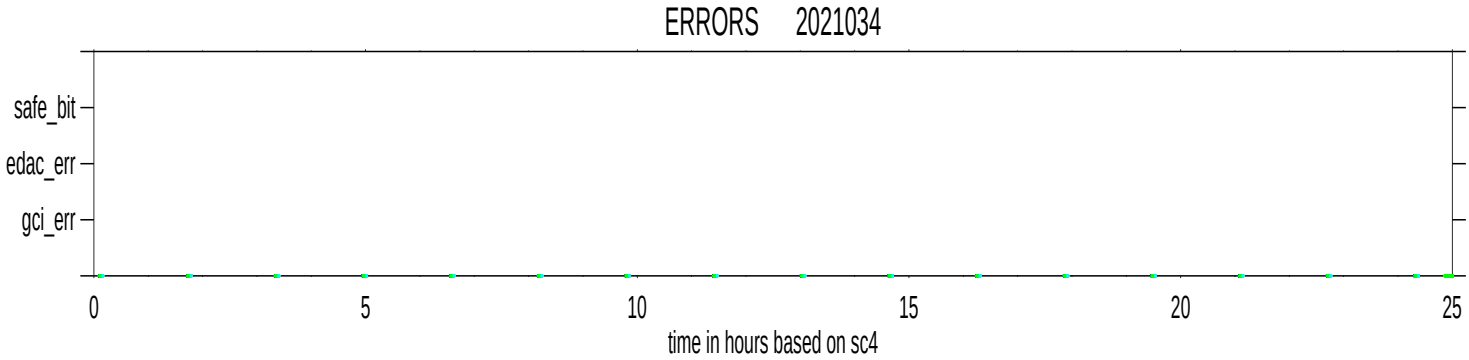
BUS_VOLTAGE 2021034

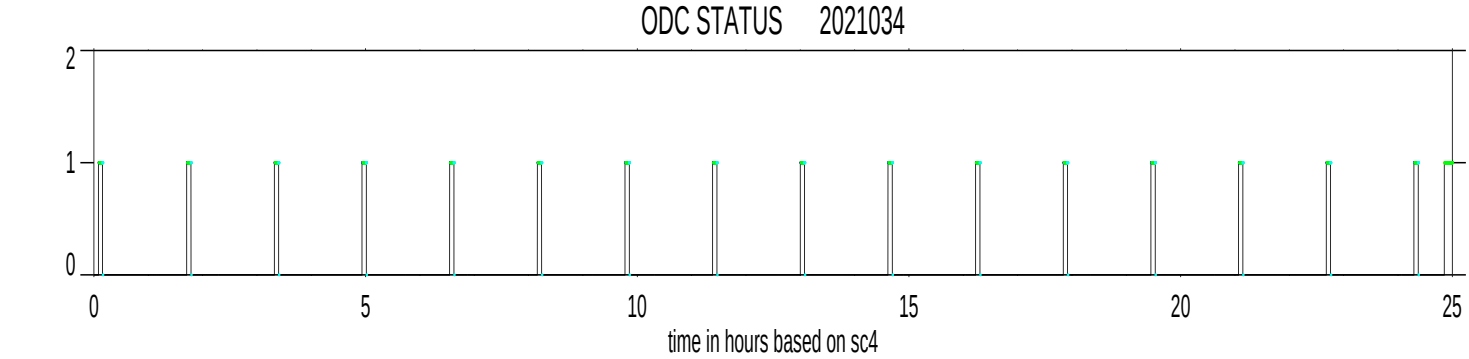


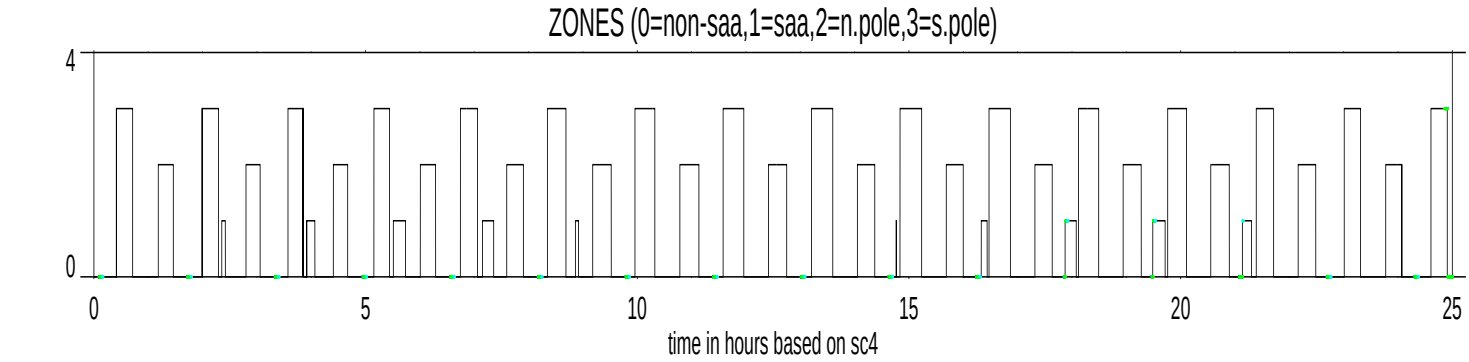
SEE_MU Operational Mode 2021034

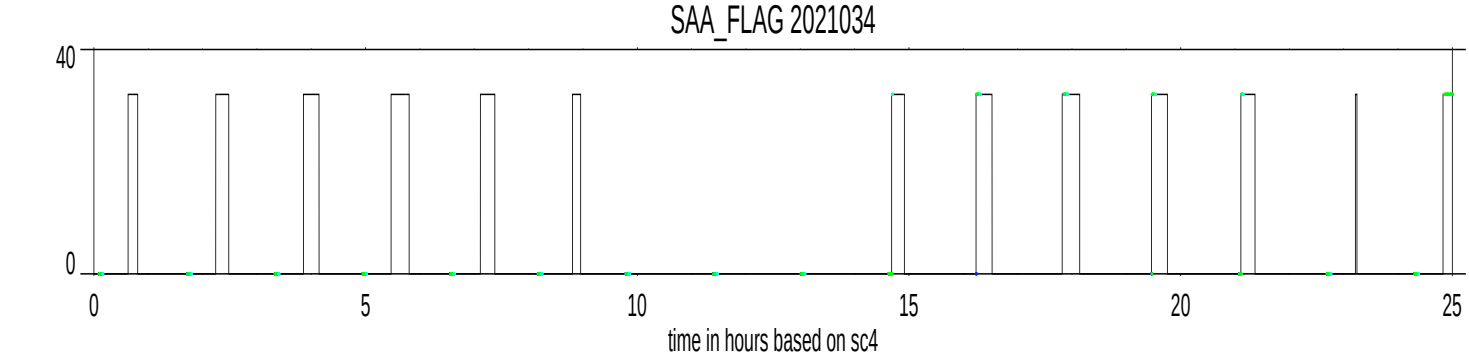


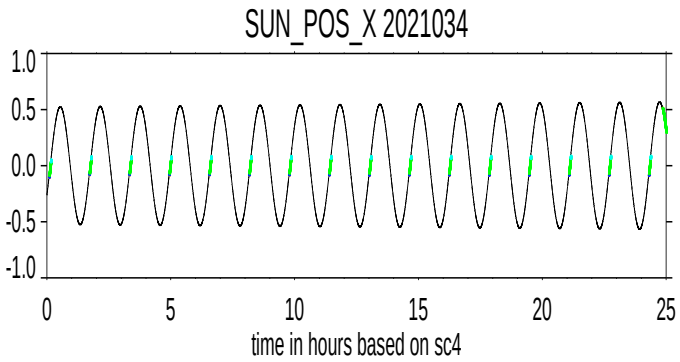

INTERNAL ERROR 2021034
16
8
0
0
5
10
15
20
25
time in hours based on sc4

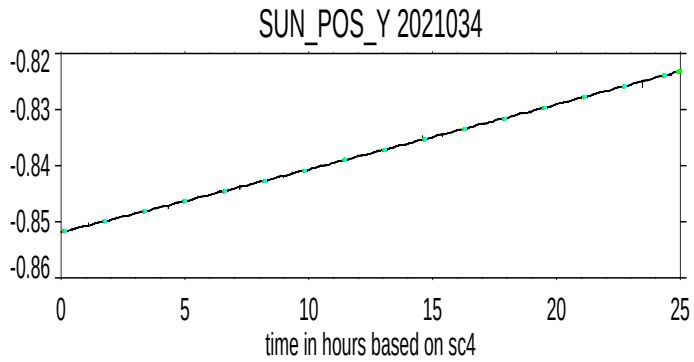

ERRORS 2021034
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

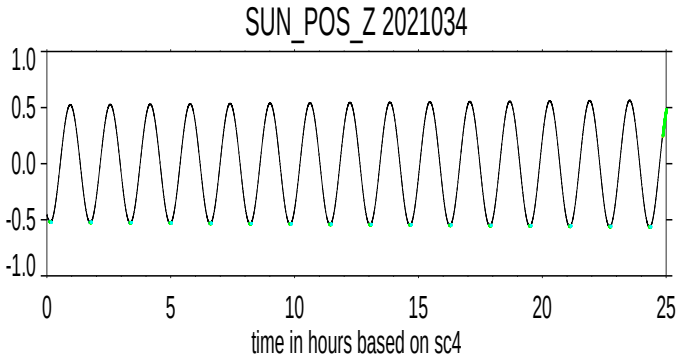

ODC STATUS 2021034
2
1
0
0
5
10
15
20
25
time in hours based on sc4

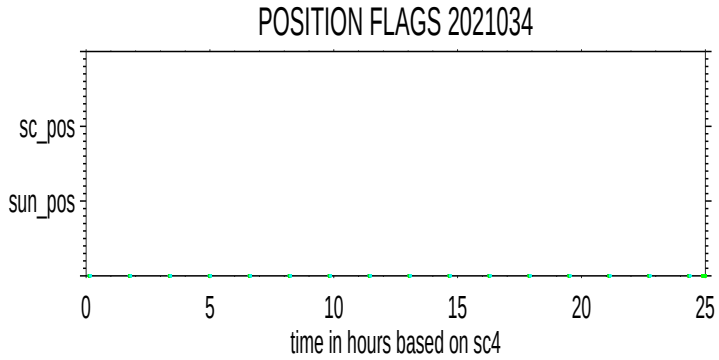

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

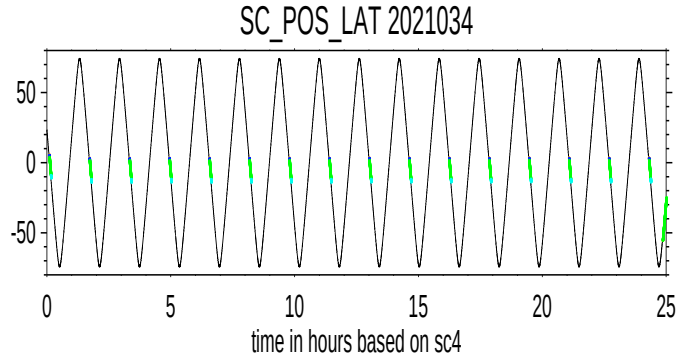

SAA_FLAG 2021034
40
0
0
5
10
15
20
25
time in hours based on sc4

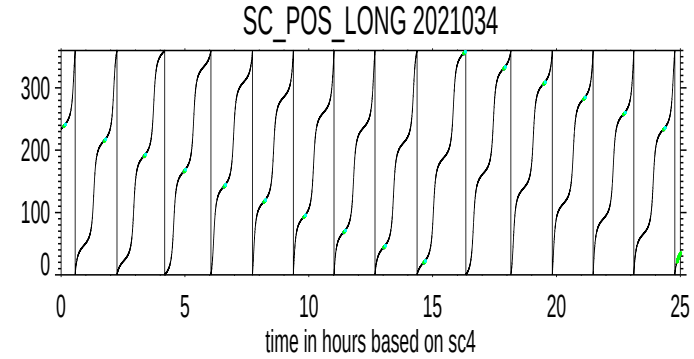

SUN_POS_X 2021034
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

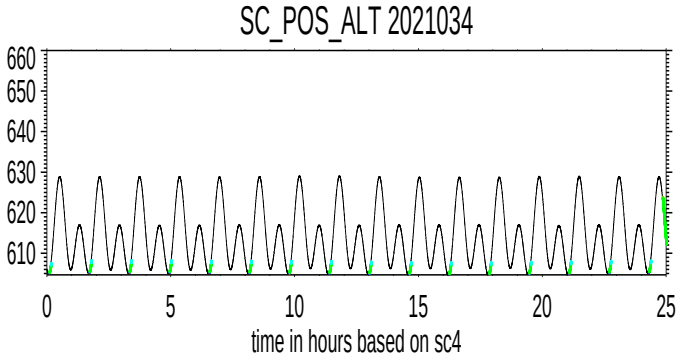

SUN_POS_Y 2021034
-0.82
-0.83
-0.84
-0.85
-0.86
0
5
10
15
20
25
time in hours based on sc4

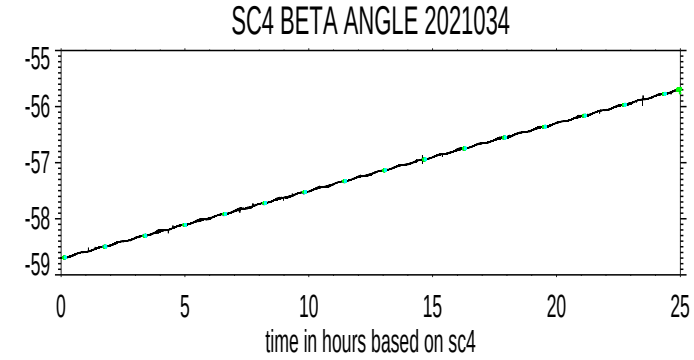

SUN_POS_Z 2021034
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021034
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021034
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021034
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021034
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021034
-55
-56
-57
-58
-59
0
5
10
15
20
25
time in hours based on sc4