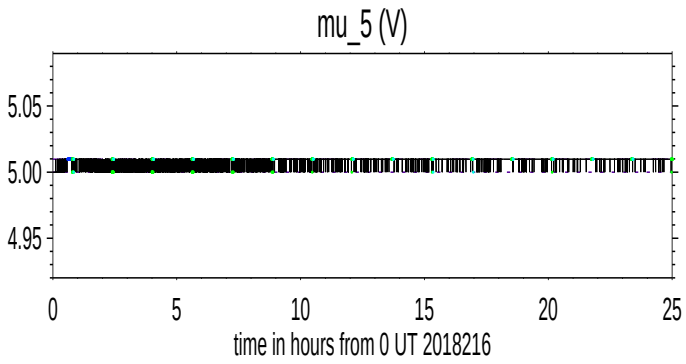
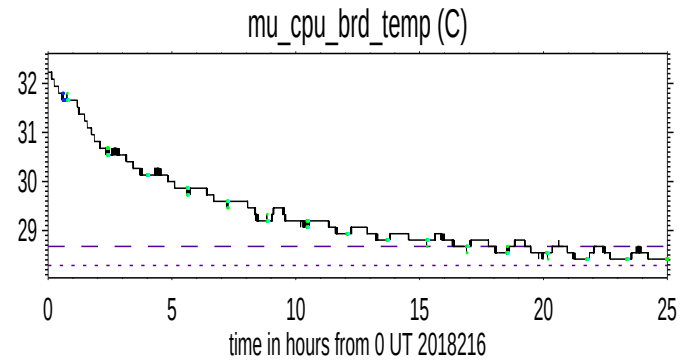
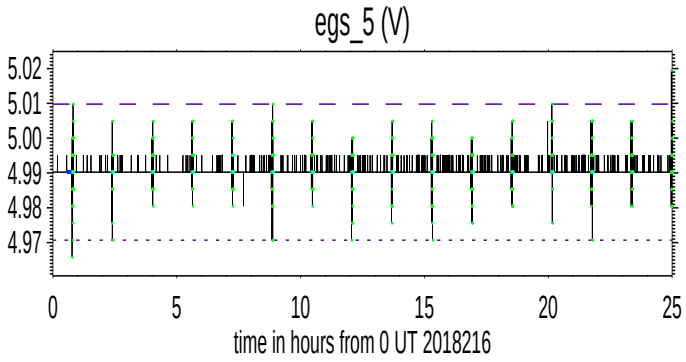
```
Information for      2018216
21:38:12.002: see_stat[1]: 7 internal error
```

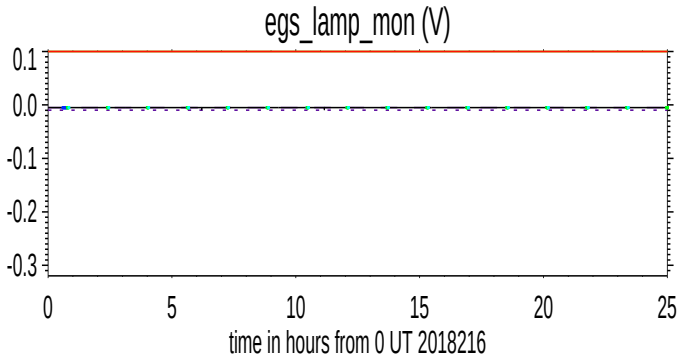
/export/timed/data/science_dp/tlm_limit/outoflimit_2018216_012.txt
Mon Sep 03 06:14:52 2018 1

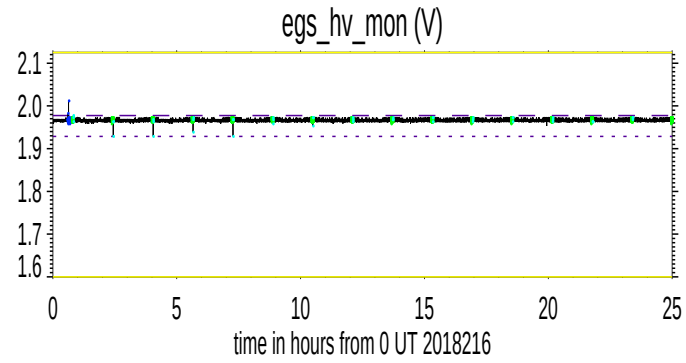
```
YH  OutOfLimit 1217382272 1217382287 hk.egs_det_temp
YH  OutOfLimit 1217382317 1217387354 hk.egs_det_temp
YH  OutOfLimit 1217387384 1217387414 hk.egs_det_temp
YH  OutOfLimit 1217387444 1217387579 hk.egs_det_temp
YH  OutOfLimit 1217387669 1217387789 hk.egs_det_temp
```

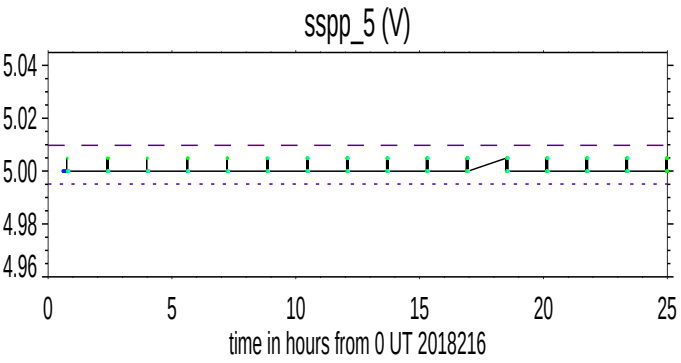

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2018216

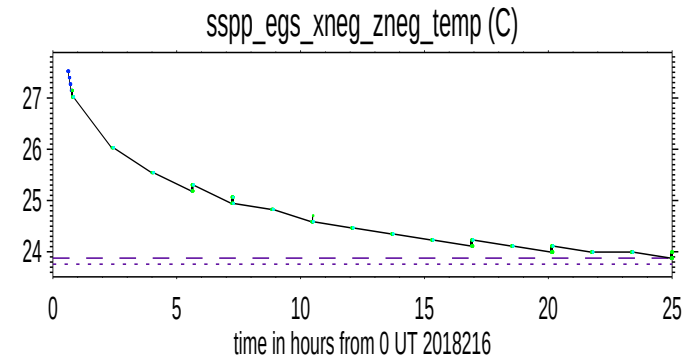

mu_cpu_brd_temp (C)
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

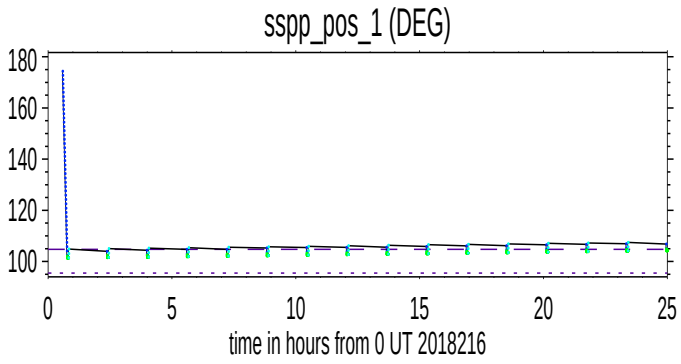

egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
0
5
10
15
20
25
time in hours from 0 UT 2018216

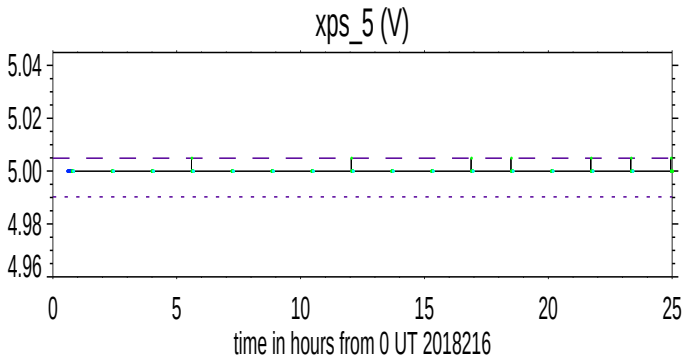

egs_lamp_mon (V)
0.1
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2018216

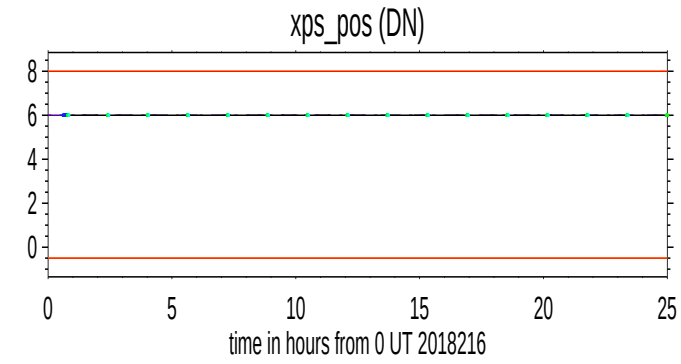

egs_hv_mon (V)
2.1
2.0
1.9
1.8
1.7
1.6
0
5
10
15
20
25
time in hours from 0 UT 2018216

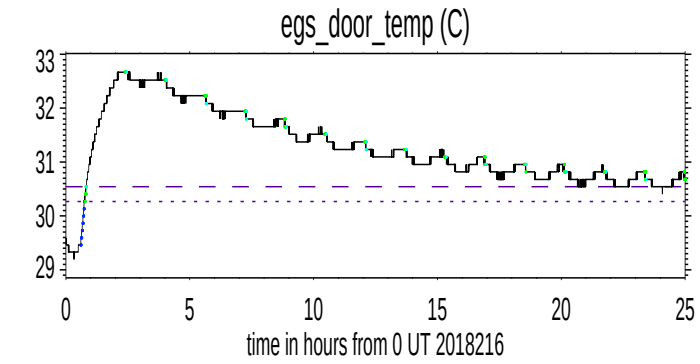

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2018216

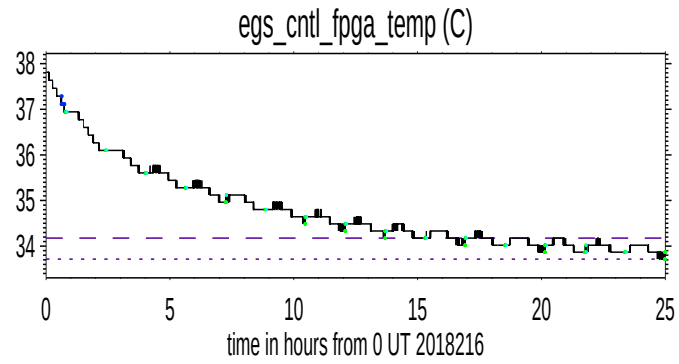

sspp_egs_xneg_zneg_temp (C)
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

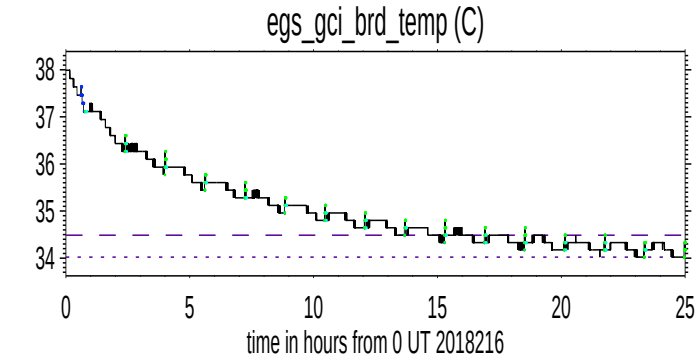

sspp_pos_1 (DEG)
180
160
140
120
100
0
5
10
15
20
25
time in hours from 0 UT 2018216

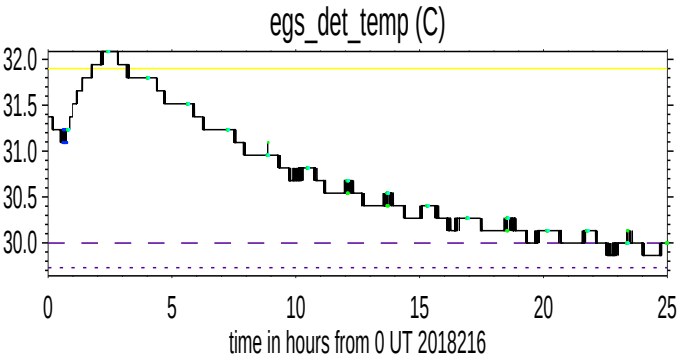

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2018216

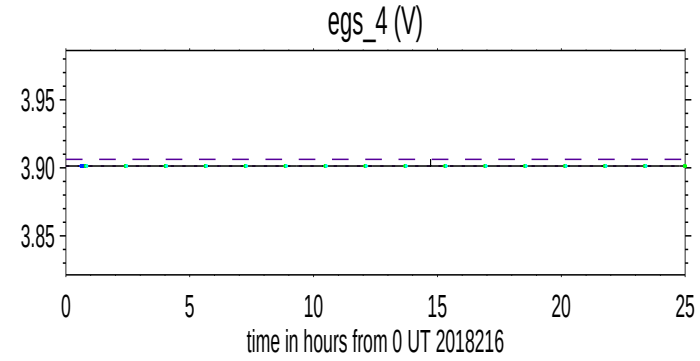

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2018216

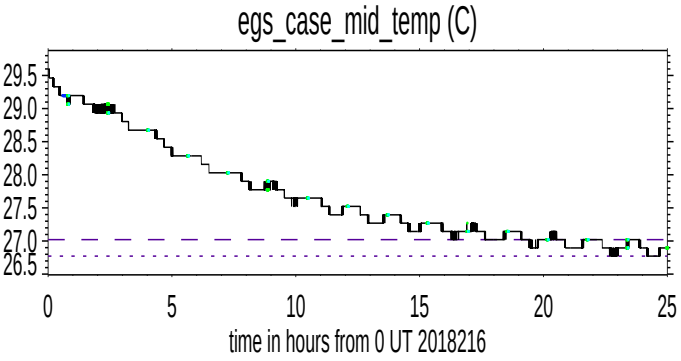

egs_door_temp (C)
33
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

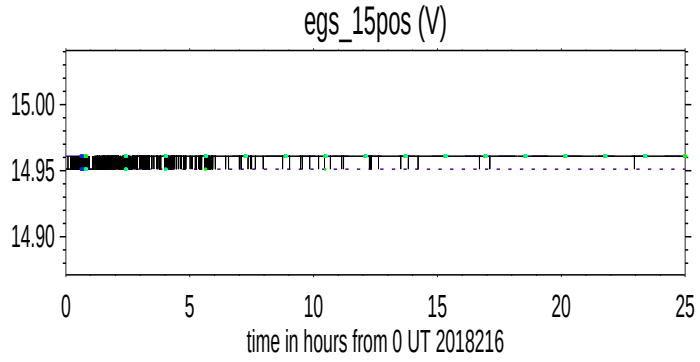

egs_cntl_fpga_temp (C)
38
37
36
35
34
0
5
10
15
20
25
time in hours from 0 UT 2018216

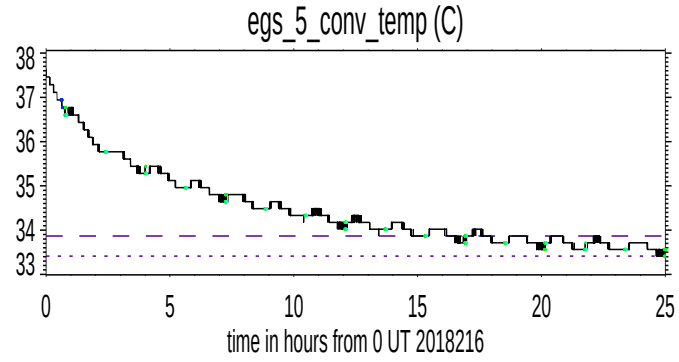

egs_gci_brd_temp (C)
38
37
36
35
34
0
5
10
15
20
25
time in hours from 0 UT 2018216

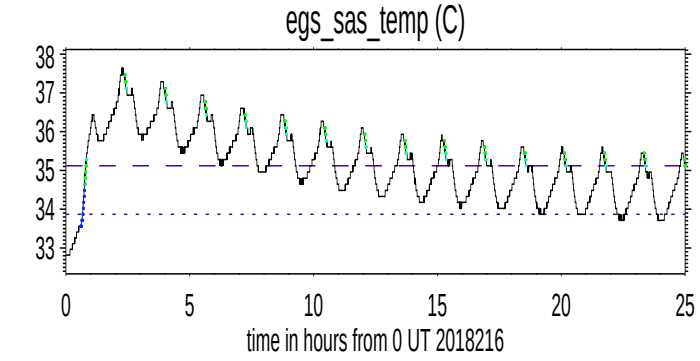

egs_det_temp (C)
32.0
31.5
31.0
30.5
30.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

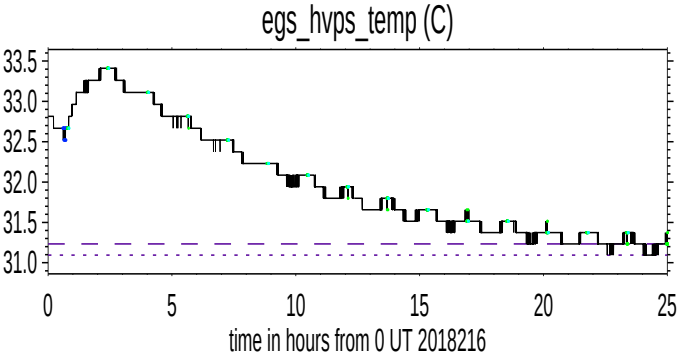

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2018216

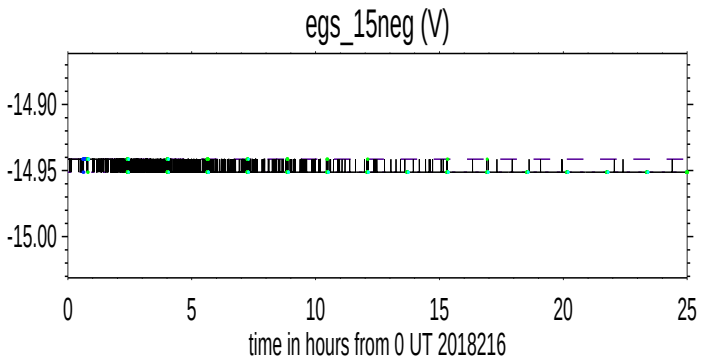

egs_case_mid_temp (C)
29.5
29.0
28.5
28.0
27.5
27.0
26.5
0
5
10
15
20
25
time in hours from 0 UT 2018216

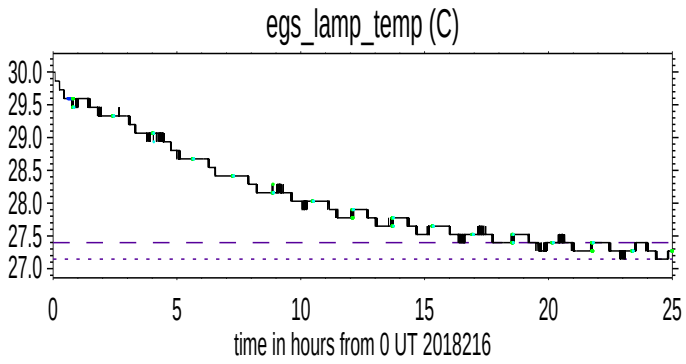

egs_15pos (V)
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2018216

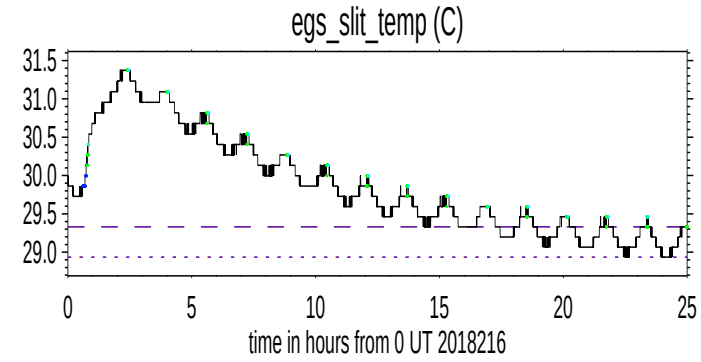

egs_5_conv_temp (C)
38
37
36
35
34
33
0
5
10
15
20
25
time in hours from 0 UT 2018216

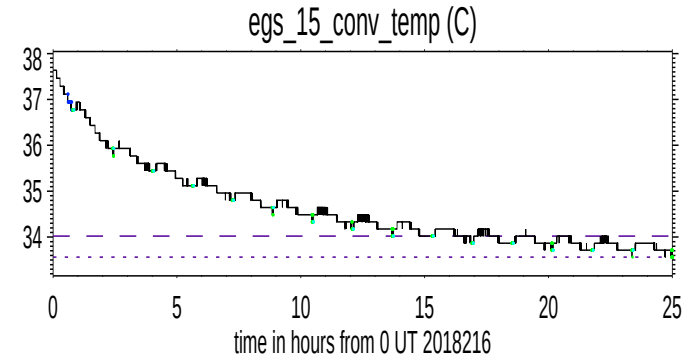

egs_sas_temp (C)
38
37
36
35
34
33
0
5
10
15
20
25
time in hours from 0 UT 2018216

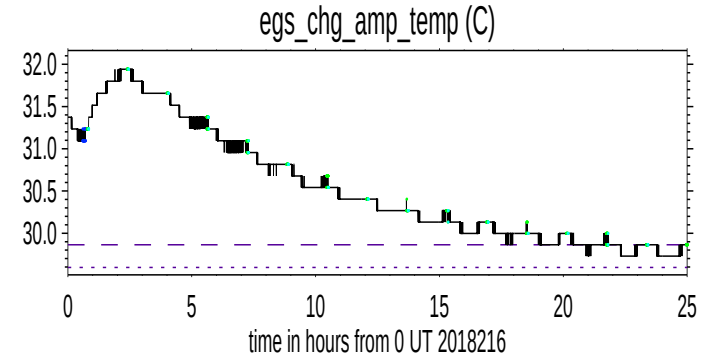

egs_hvps_temp (C)
33.5
33.0
32.5
32.0
31.5
31.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

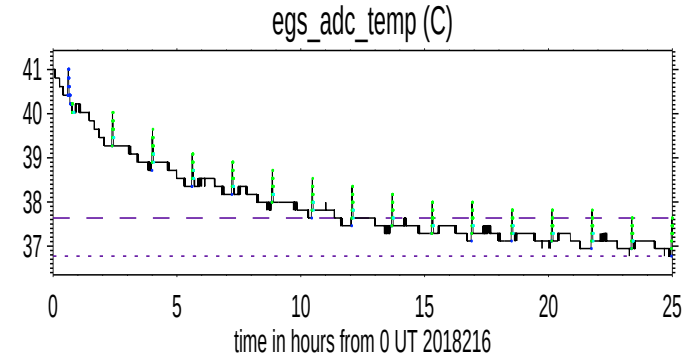

egs_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2018216

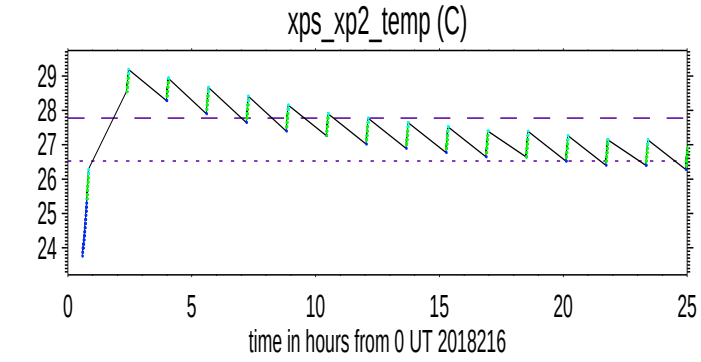

egs_lamp_temp (C)
30.0
29.5
29.0
28.5
28.0
27.5
27.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

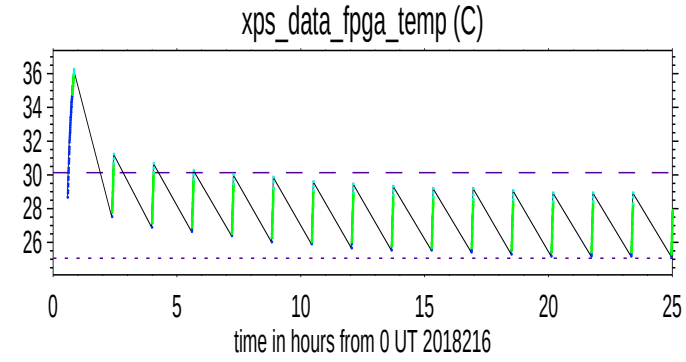

egs_slit_temp (C)
31.5
31.0
30.5
30.0
29.5
29.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

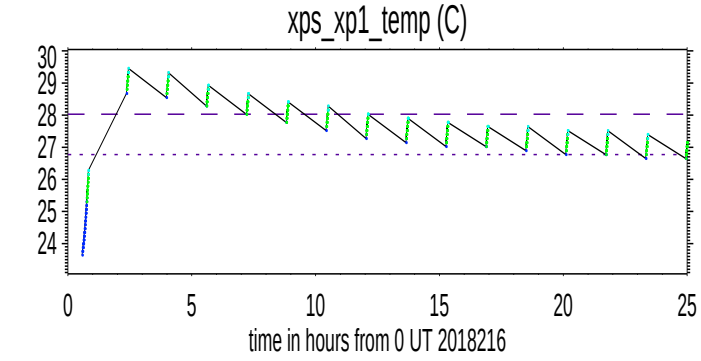

egs_15_conv_temp (C)
38
37
36
35
34
0
5
10
15
20
25
time in hours from 0 UT 2018216

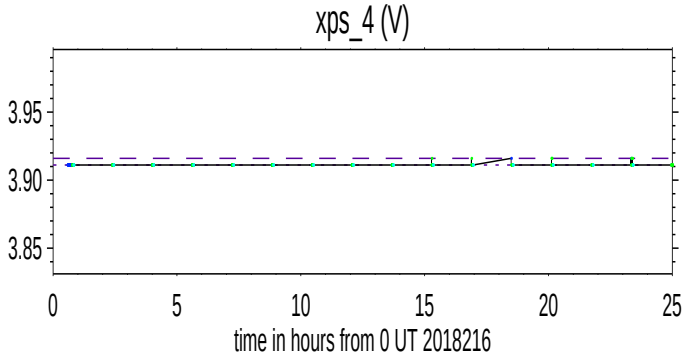

egs_chg_amp_temp (C)
32.0
31.5
31.0
30.5
30.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

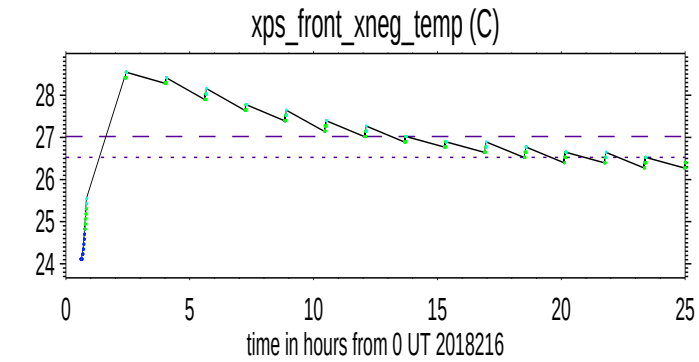

egs_adc_temp (C)
41
40
39
38
37
0
5
10
15
20
25
time in hours from 0 UT 2018216

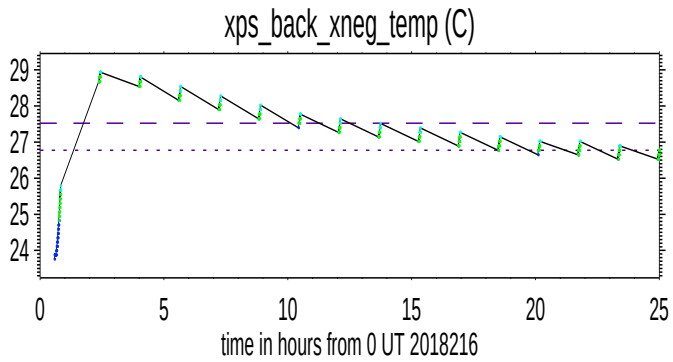

xps_xp2_temp (C)
29
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

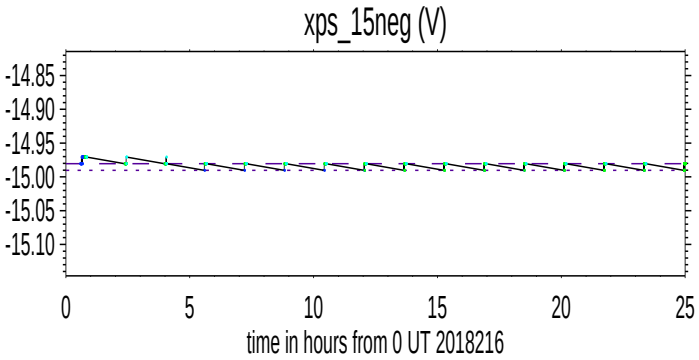

xps_data_fpga_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

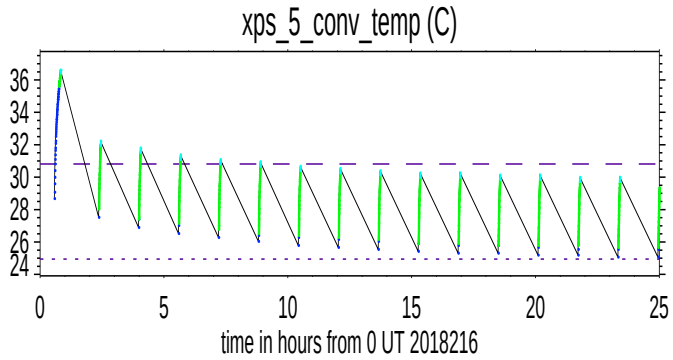

xps_xp1_temp (C)
30
29
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

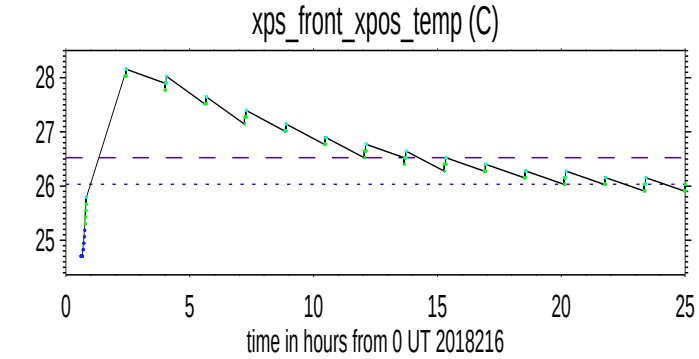

xps_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2018216

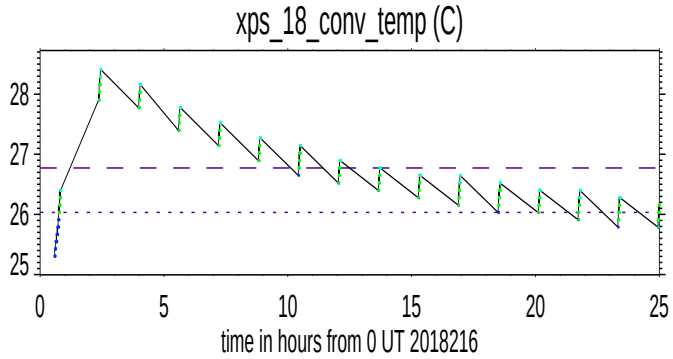

xps_front_xneg_temp (C)
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

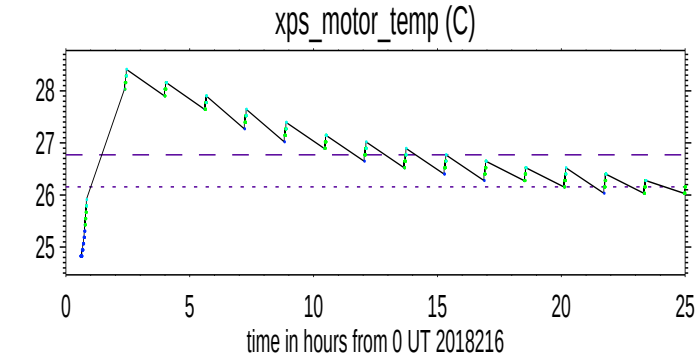

xps_back_xneg_temp (C)
29
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

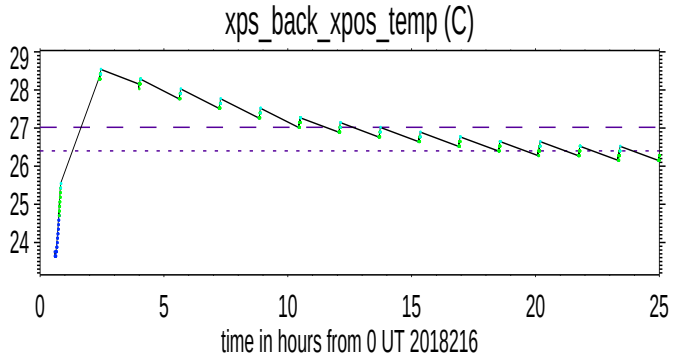

xps_15neg (V)
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2018216

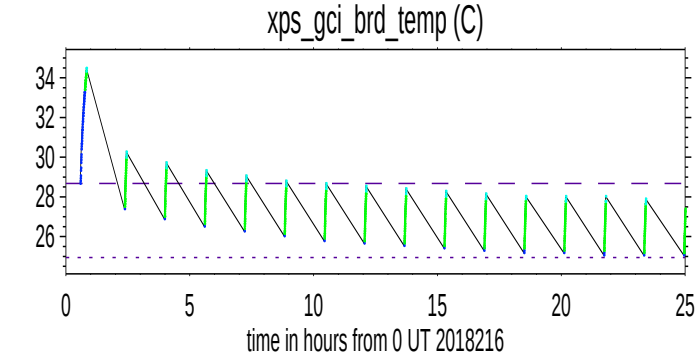

xps_5_conv_temp (C)
36
34
32
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

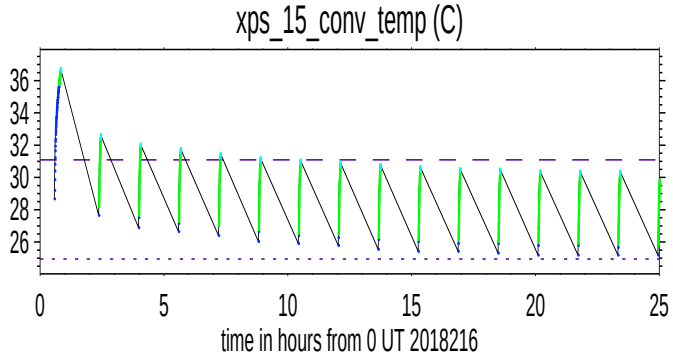

xps_front_xpos_temp (C)
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2018216

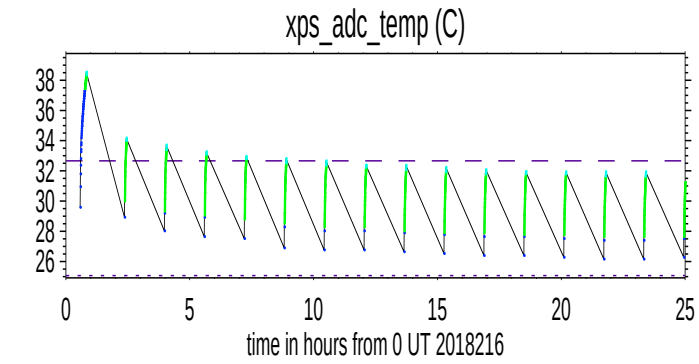

xps_18_conv_temp (C)
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2018216

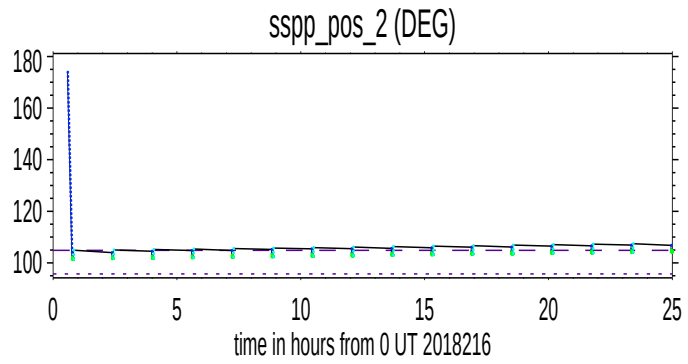

xps_motor_temp (C)
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2018216

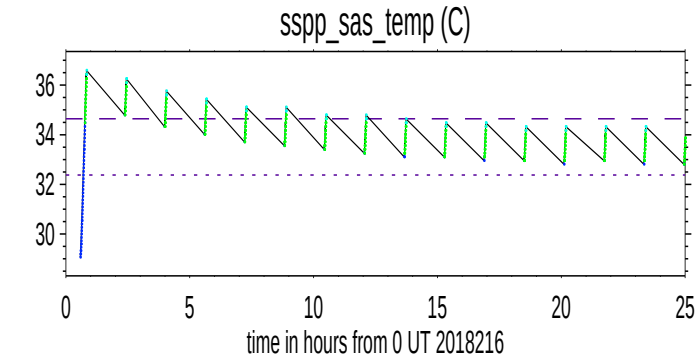

xps_back_xpos_temp (C)
29
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2018216

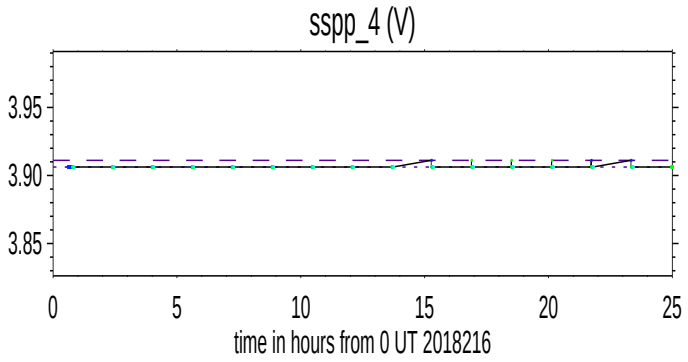

xps_gci_brd_temp (C)
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

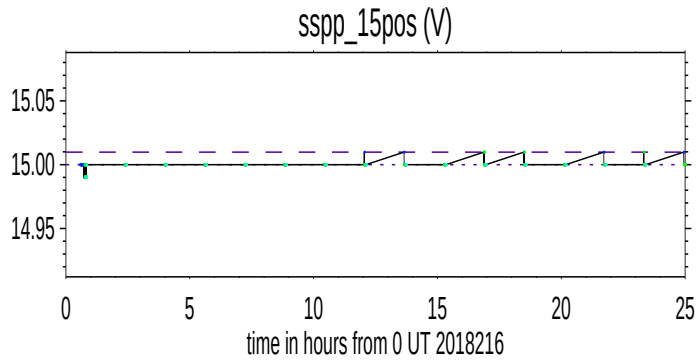

xps_15_conv_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

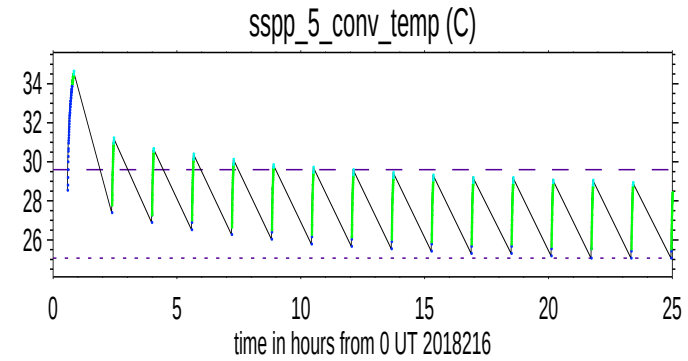

xps_adc_temp (C)
38
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

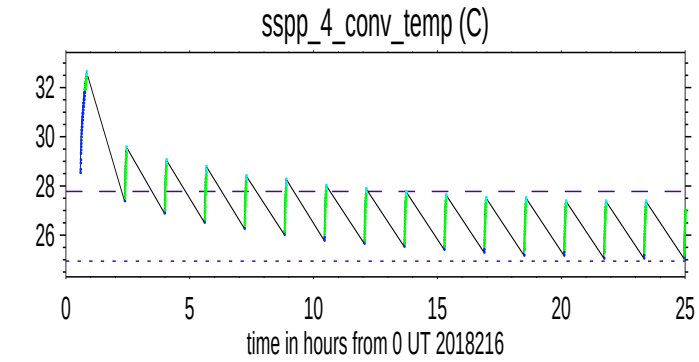

sspp_pos_2 (DEG)
180
160
140
120
100
0
5
10
15
20
25
time in hours from 0 UT 2018216

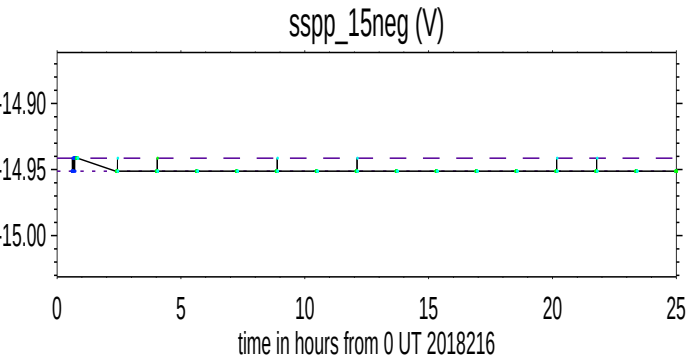

sspp_sas_temp (C)
36
34
32
30
0
5
10
15
20
25
time in hours from 0 UT 2018216

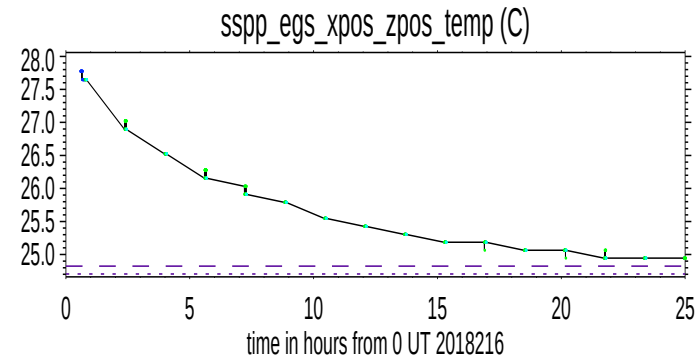

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2018216

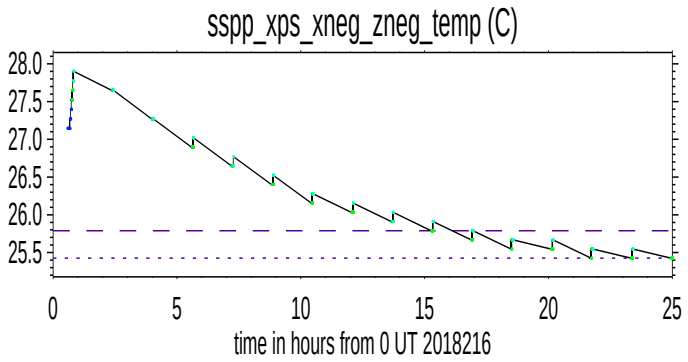

sspp_15pos (V)
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2018216

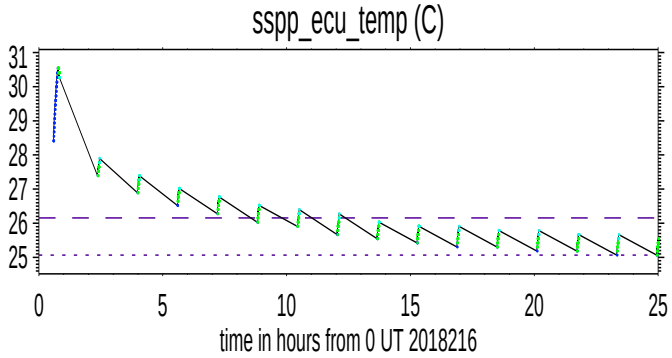

sspp_5_conv_temp (C)
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

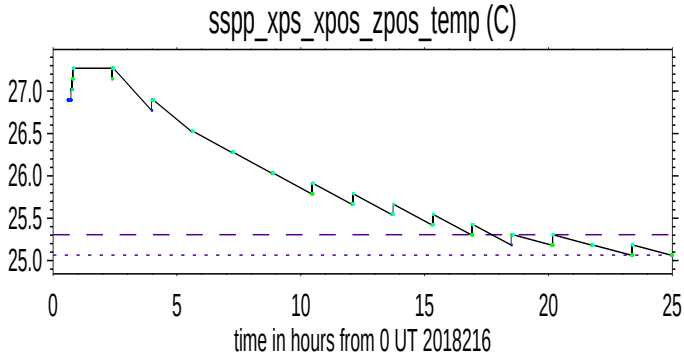

sspp_4_conv_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

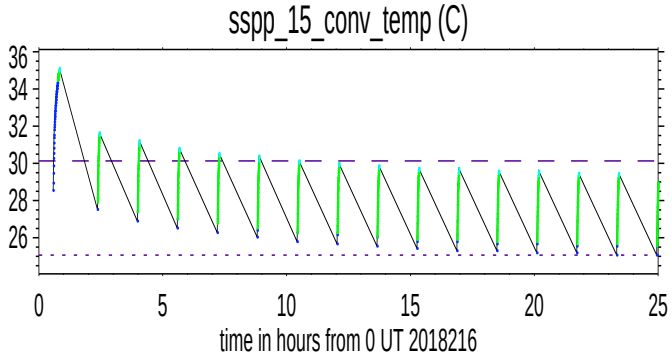

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2018216

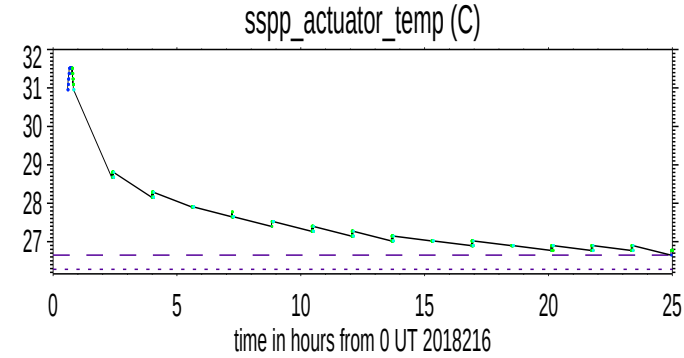

sspp_egs_xpos_zpos_temp (C)
28.0
27.5
27.0
26.5
26.0
25.5
25.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

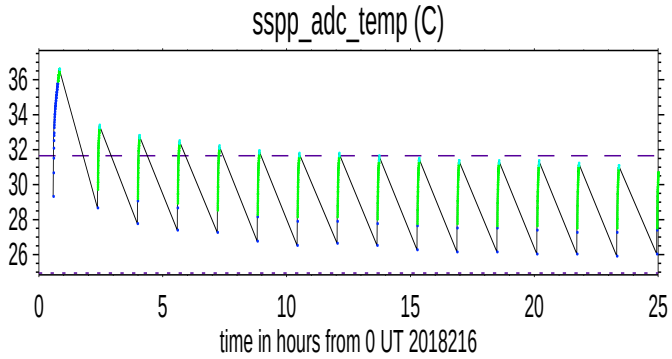

sspp_xps_xneg_zneg_temp (C)
28.0
27.5
27.0
26.5
26.0
25.5
0
5
10
15
20
25
time in hours from 0 UT 2018216

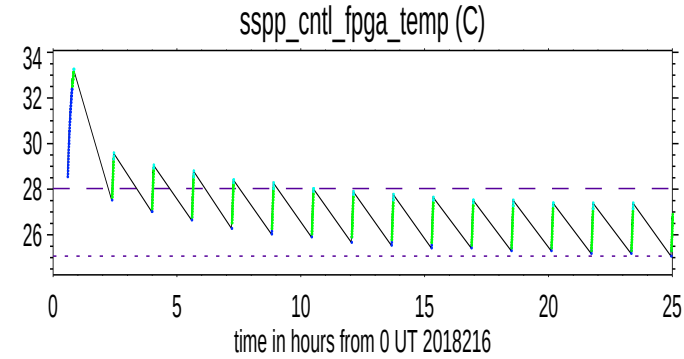

sspp_ecu_temp (C)
31
30
29
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2018216

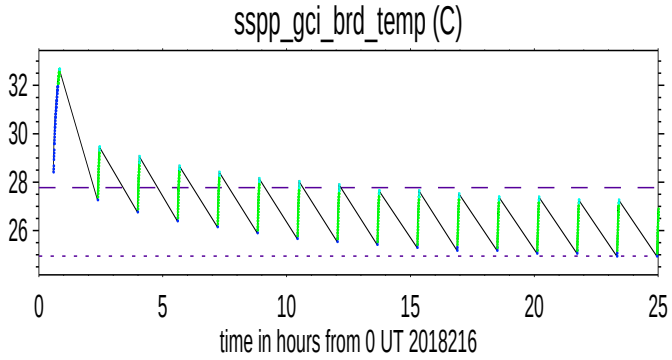

sspp_xps_xpos_zpos_temp (C)
27.0
26.5
26.0
25.5
25.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

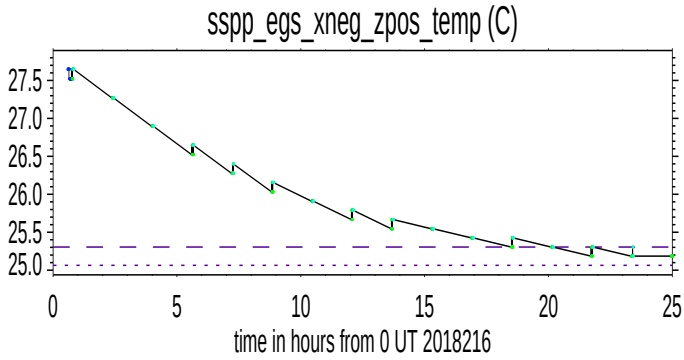

sspp_15_conv_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

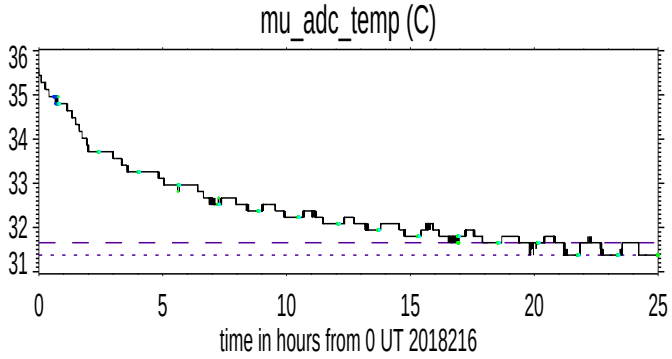

sspp_actuator_temp (C)
32
31
30
29
28
27
0
5
10
15
20
25
time in hours from 0 UT 2018216

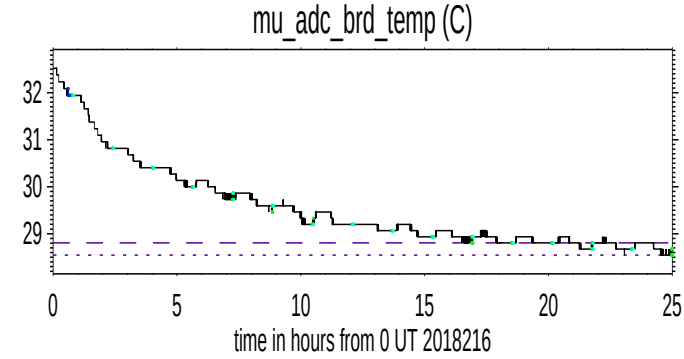

sspp_adc_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

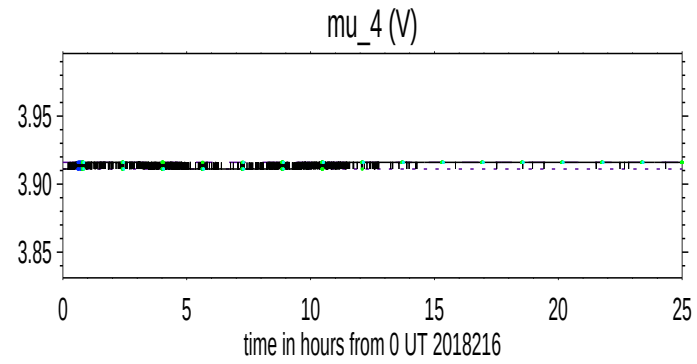

sspp_cntl_fpga_temp (C)
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

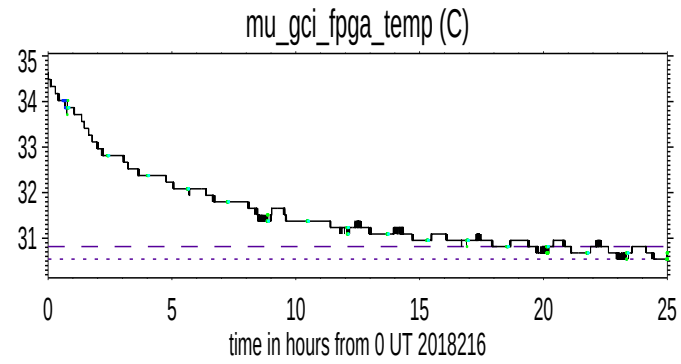

sspp_gci_brd_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2018216

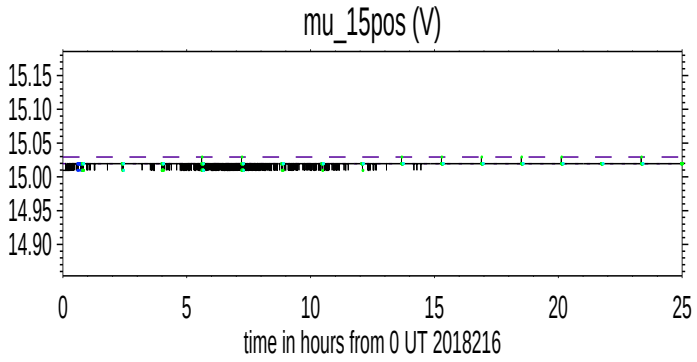

sspp_egs_xneg_zpos_temp (C)
27.5
27.0
26.5
26.0
25.5
25.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

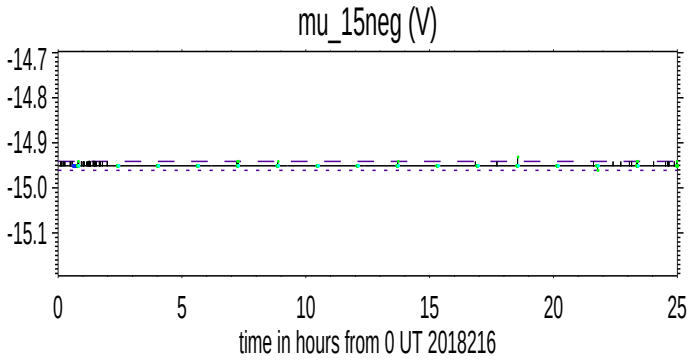

mu_adc_temp (C)
36
35
34
33
32
31
0
5
10
15
20
25
time in hours from 0 UT 2018216

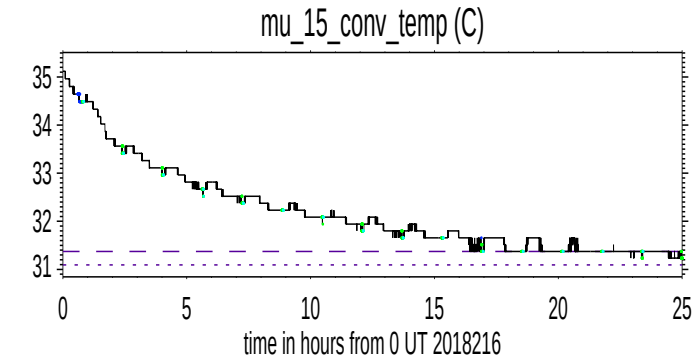

mu_adc_brd_temp (C)
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

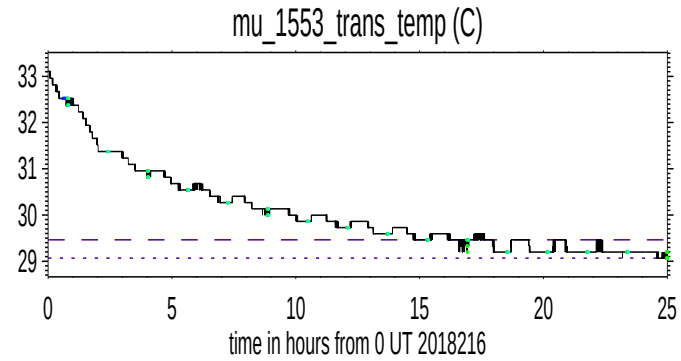

mu_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2018216

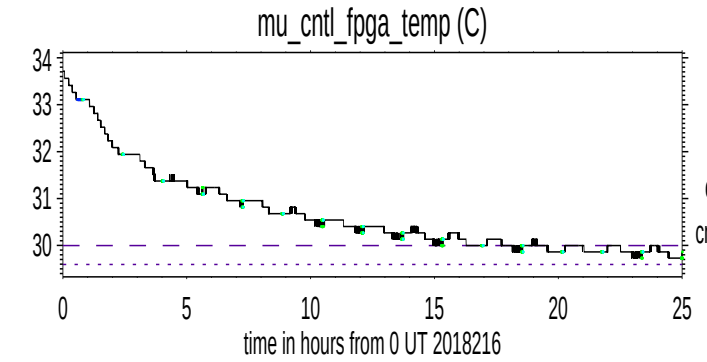

mu_gci_fpga_temp (C)
35
34
33
32
31
0
5
10
15
20
25
time in hours from 0 UT 2018216

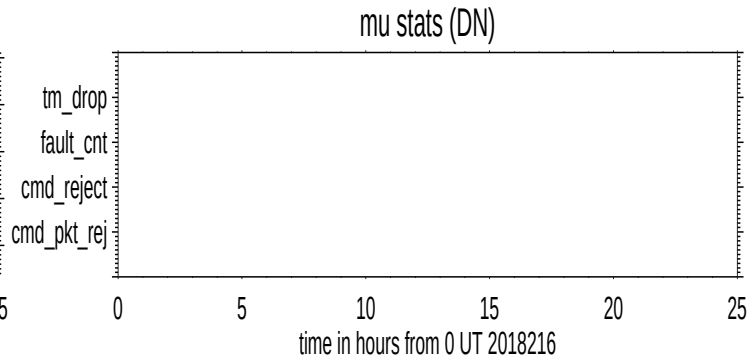

mu_15pos (V)
15.15
15.10
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2018216

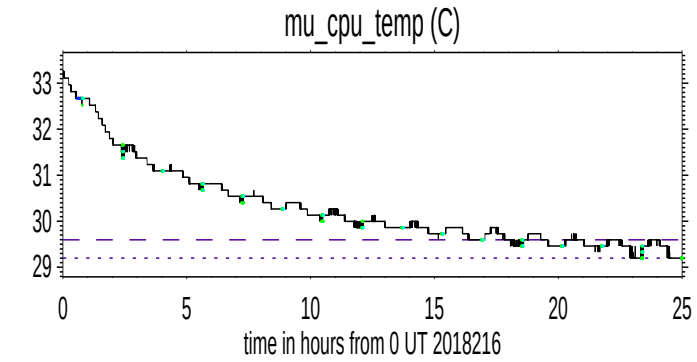

mu_15neg (V)
-14.7
-14.8
-14.9
-15.0
-15.1
0
5
10
15
20
25
time in hours from 0 UT 2018216

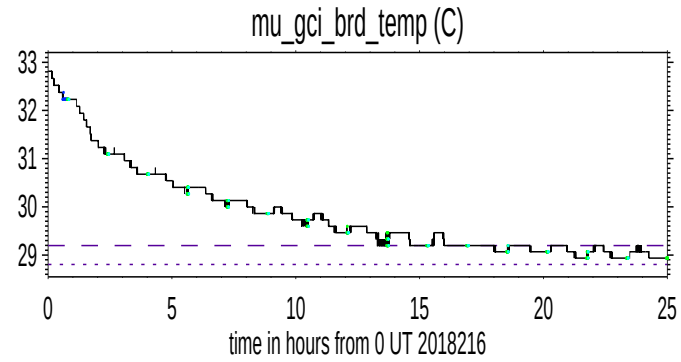

mu_15_conv_temp (C)
35
34
33
32
31
0
5
10
15
20
25
time in hours from 0 UT 2018216

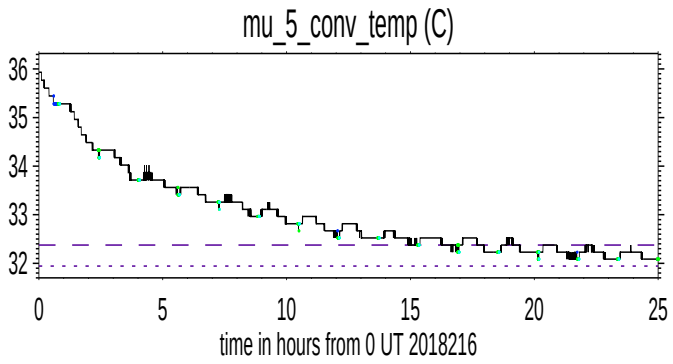

mu_1553_trans_temp (C)
33
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

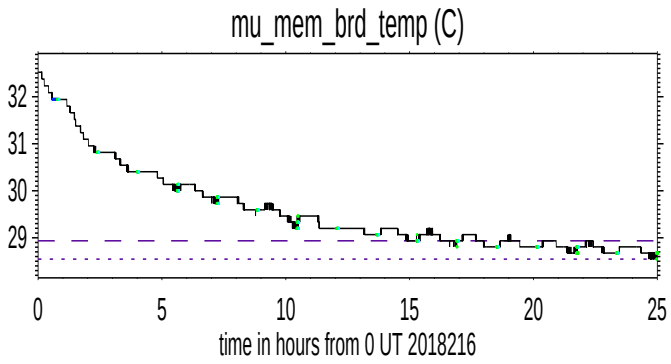

mu_cntl_fpga_temp (C)
34
33
32
31
30
0
5
10
15
20
25
time in hours from 0 UT 2018216

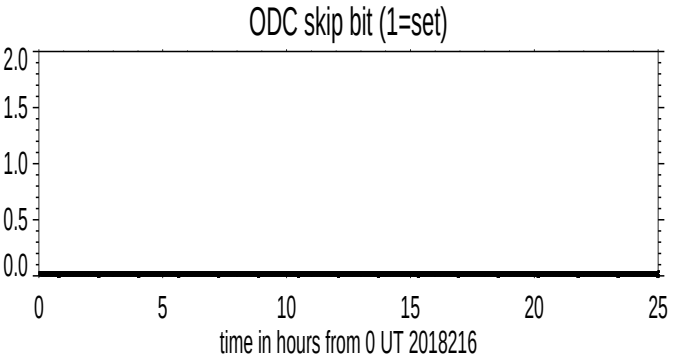

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2018216

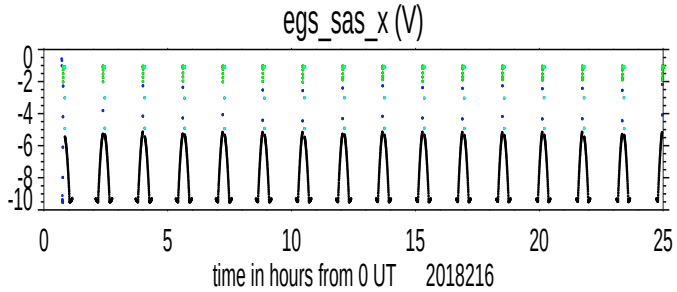

mu_cpu_temp (C)
33
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

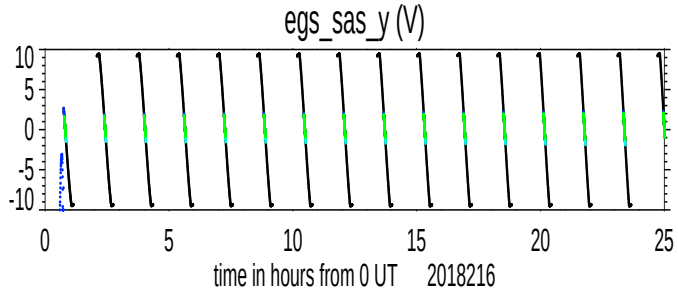

mu_gci_brd_temp (C)
33
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

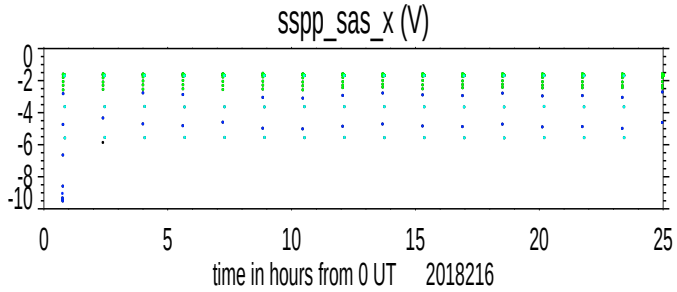

mu_5_conv_temp (C)
36
35
34
33
32
0
5
10
15
20
25
time in hours from 0 UT 2018216

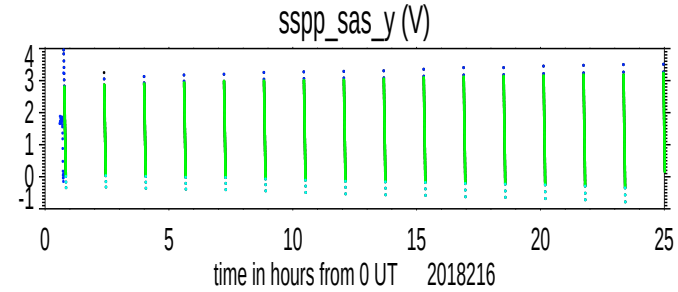

mu_mem_brd_temp (C)
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2018216

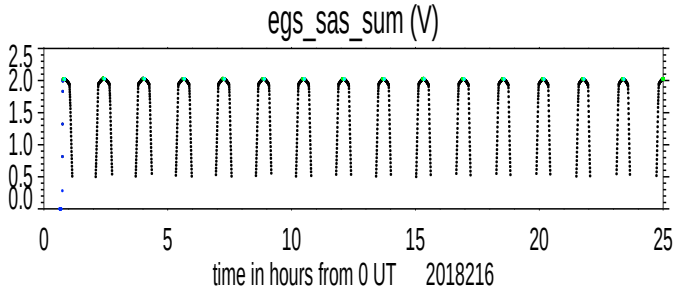

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2018216

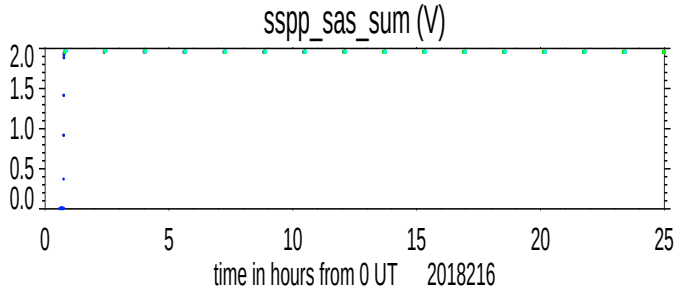

egs_sas_x (V)
time in hours from 0 UT 2018216

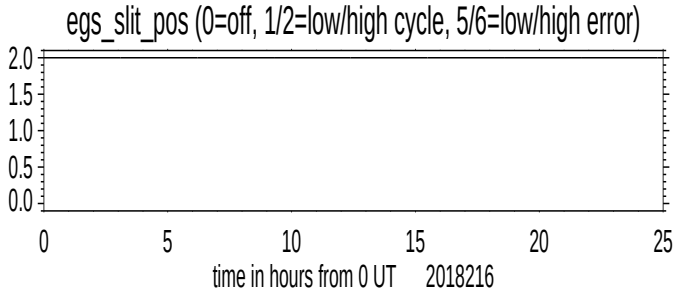

egs_sas_y (V)
time in hours from 0 UT 2018216

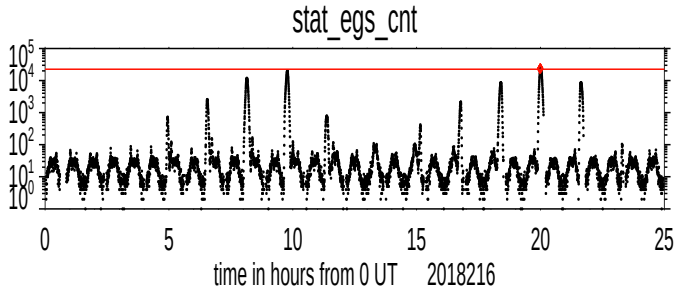

sspp_sas_x (V)
time in hours from 0 UT 2018216

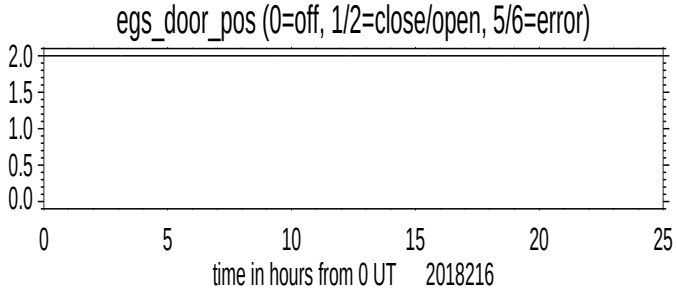

sspp_sas_y (V)
time in hours from 0 UT 2018216

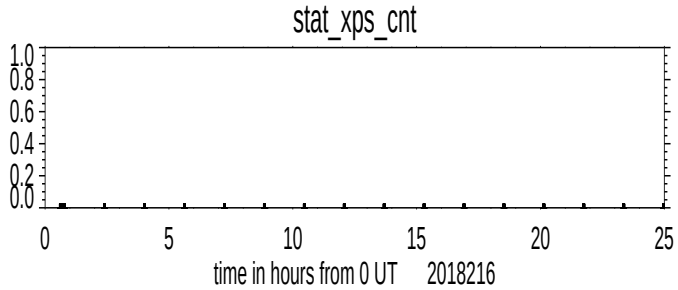

egs_sas_sum (V)
time in hours from 0 UT 2018216

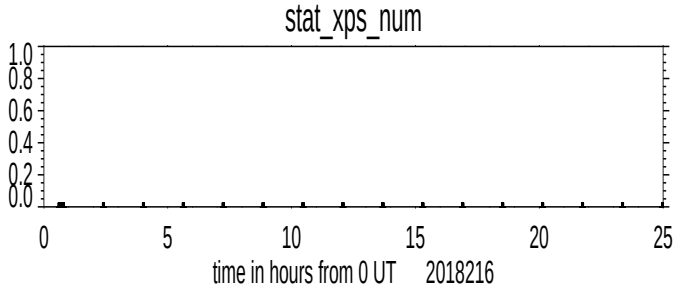

sspp_sas_sum (V)
time in hours from 0 UT 2018216

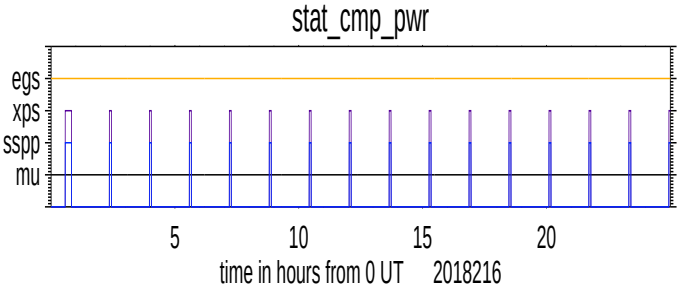

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2018216


stat_egs_cnt
time in hours from 0 UT 2018216

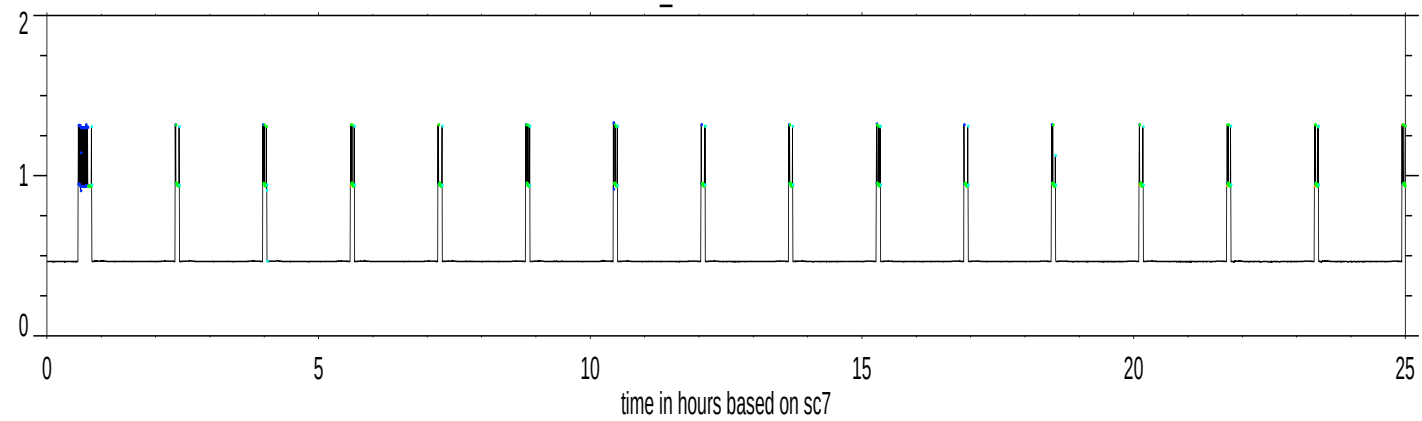

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2018216


stat_xps_cnt
time in hours from 0 UT 2018216

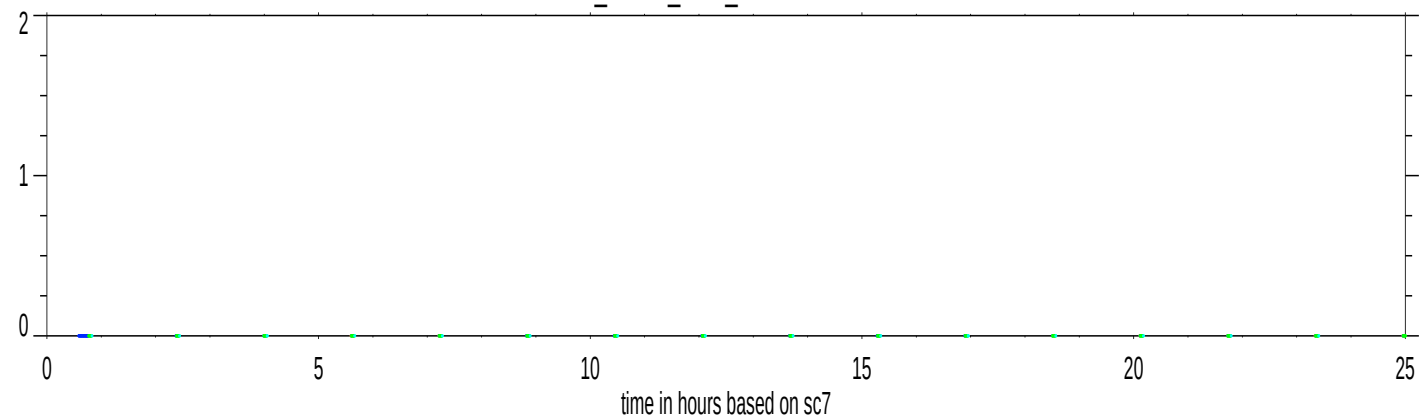

stat_xps_num
time in hours from 0 UT 2018216


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2018216

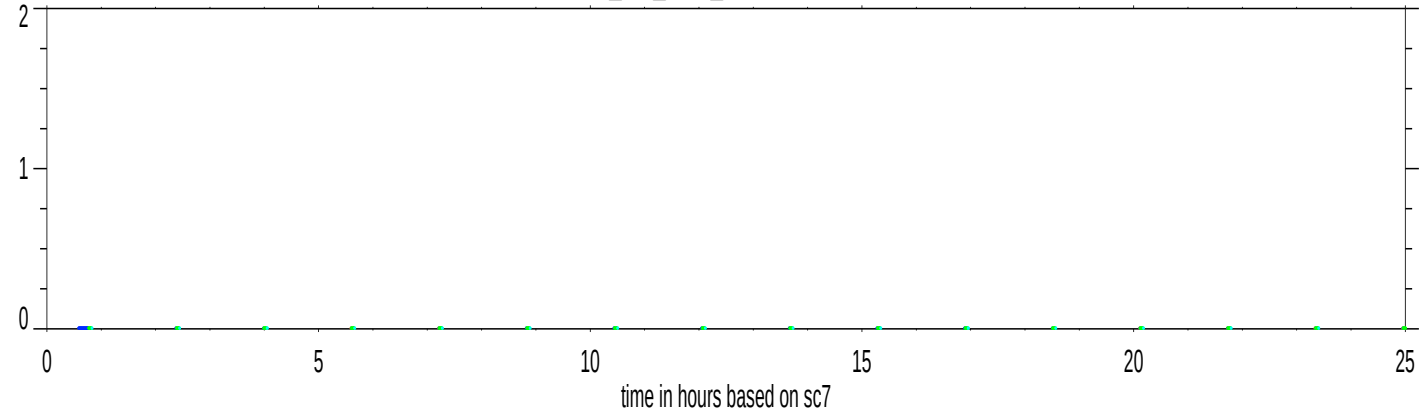
SEE_CUR 2018216



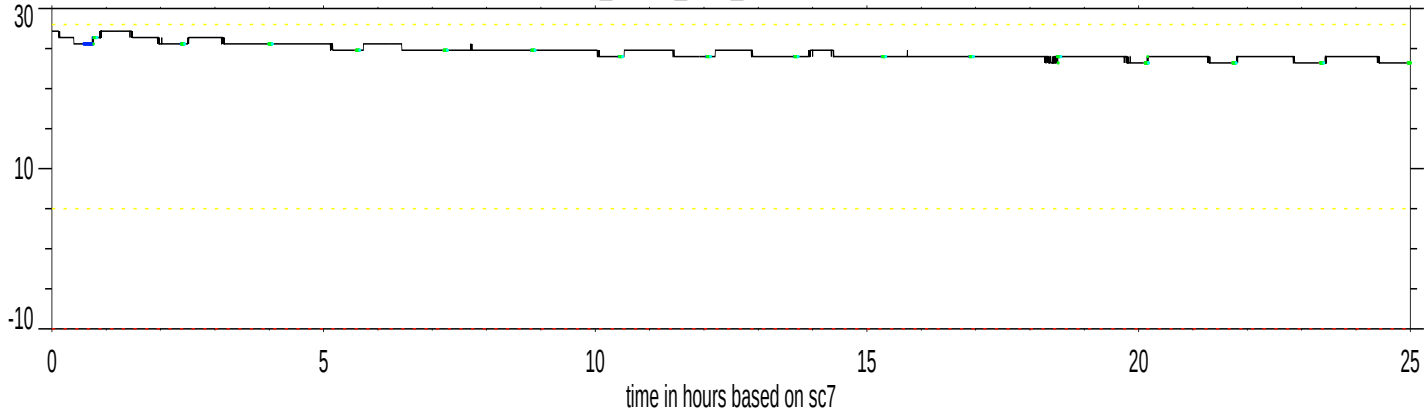
SEE_SURV_HTR_CUR 2018216



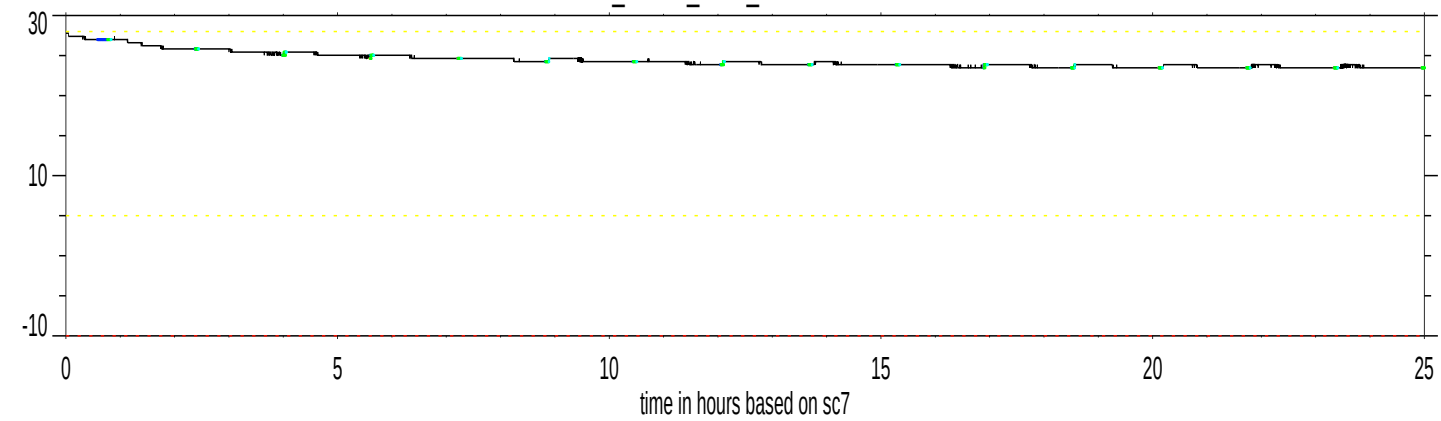
SEE_OP_HTR_CUR 2018216



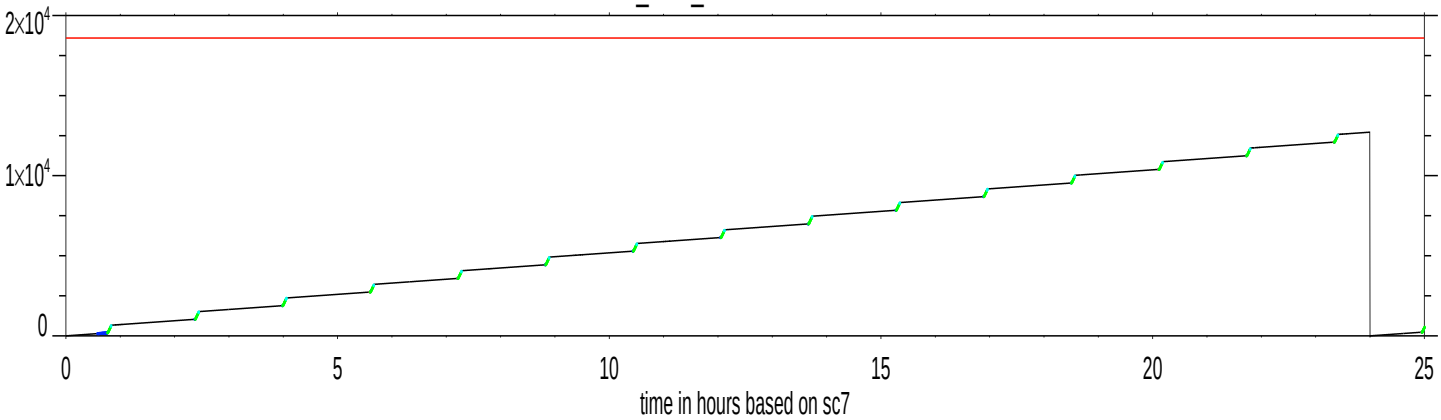
SSPP_BHND_XPS_TEMP 2018216



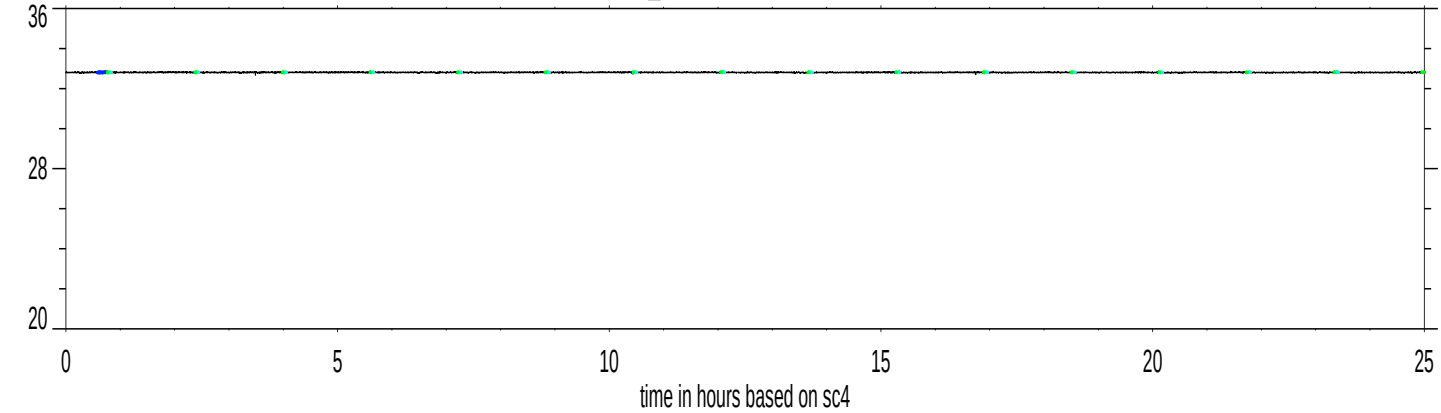
SSPP_BHND_MTR_TEMP 2018216



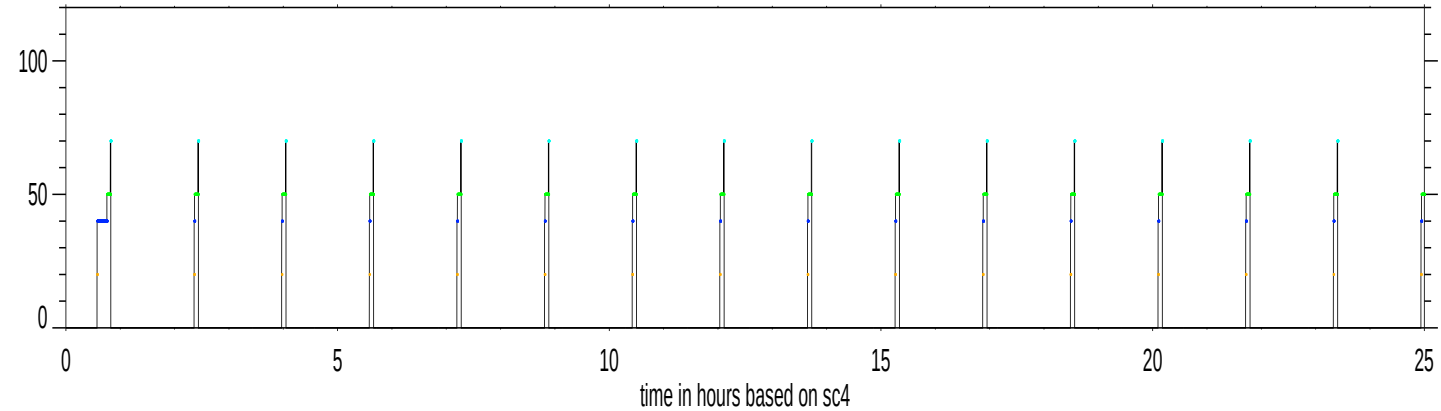
SEE_PKT_COUNT 2018216

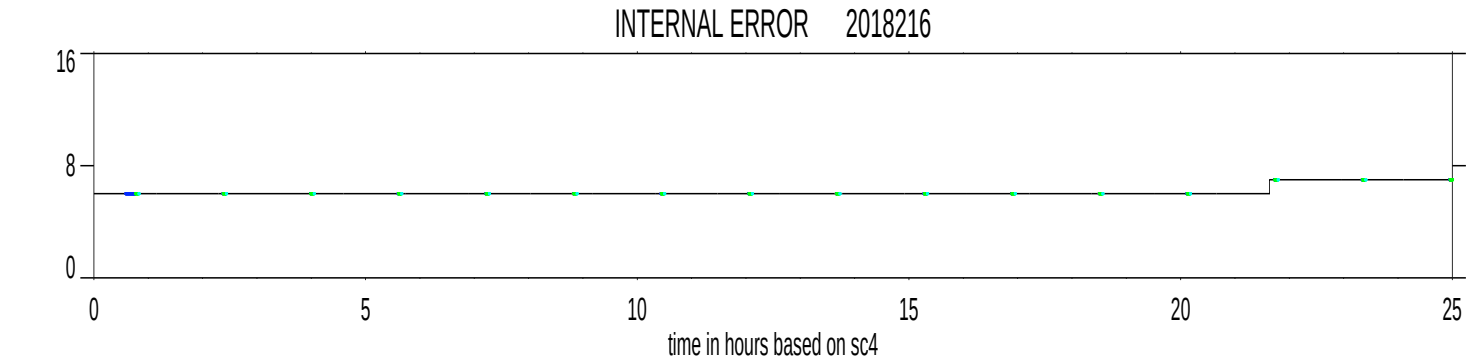


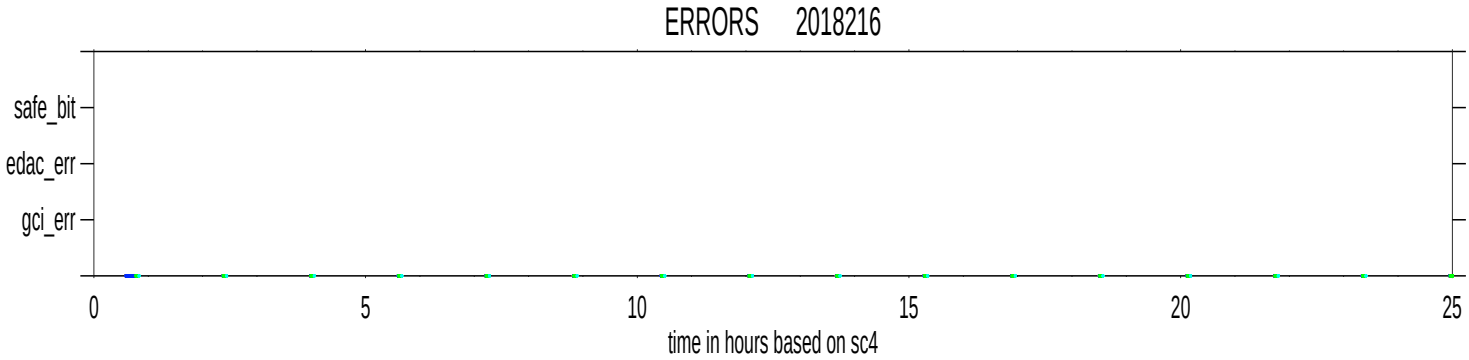
BUS_VOLTAGE 2018216

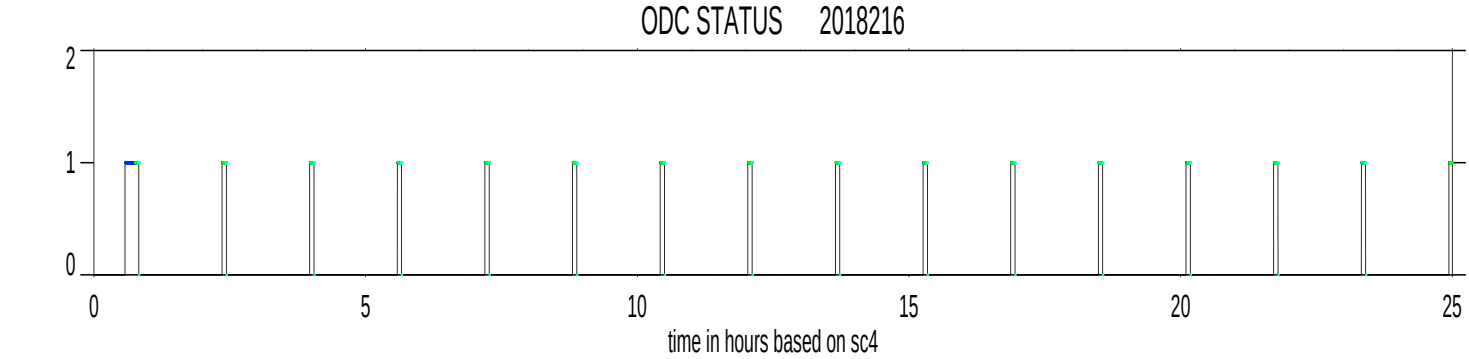


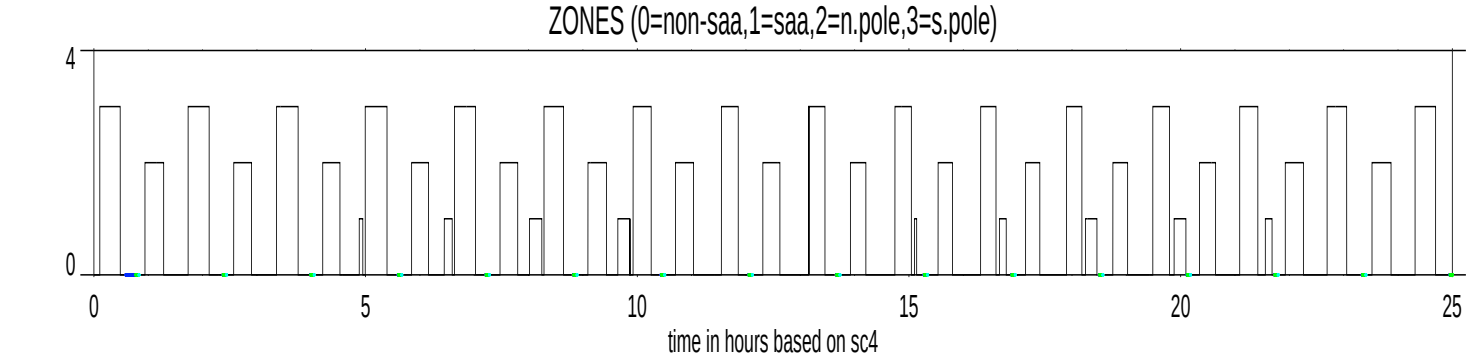
SEE_MU Operational Mode 2018216

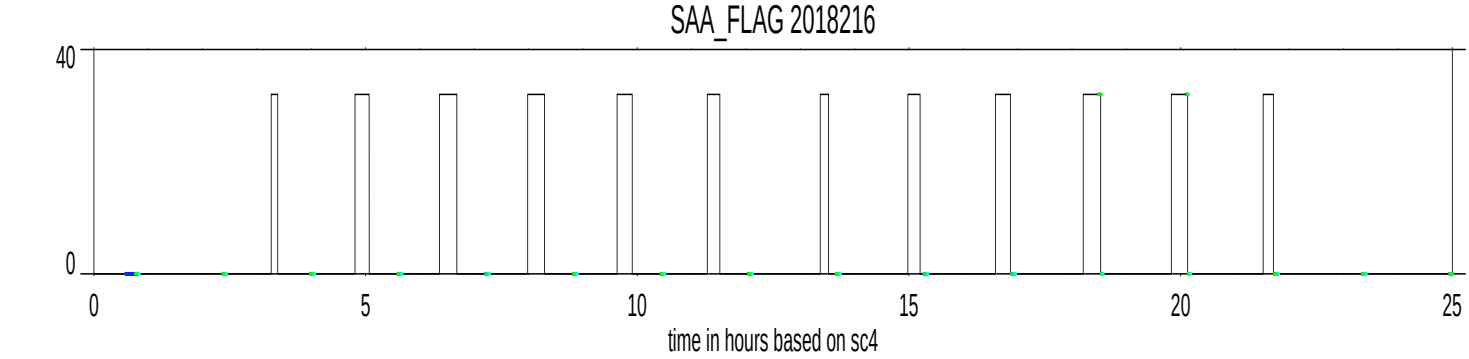


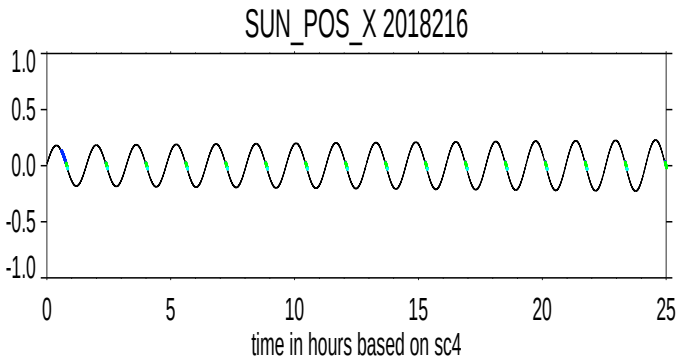

INTERNAL ERROR 2018216
16
8
0
0
5
10
15
20
25
time in hours based on sc4

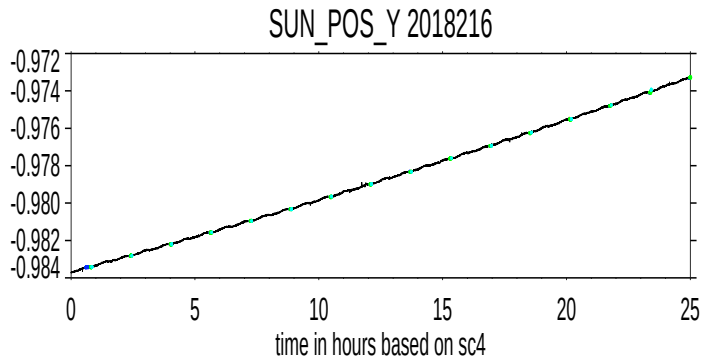

ERRORS 2018216
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

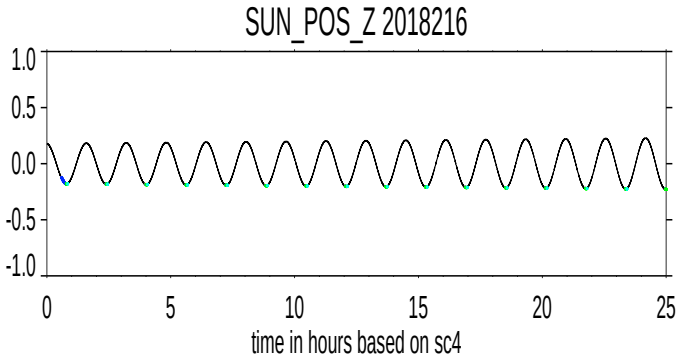

ODC STATUS 2018216
2
1
0
0
5
10
15
20
25
time in hours based on sc4

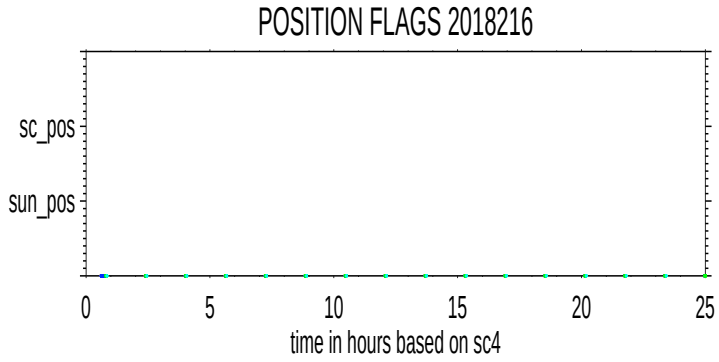

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

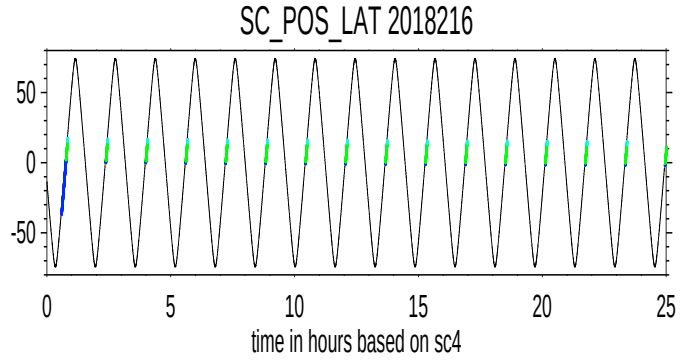

SAA_FLAG 2018216
40
0
0
5
10
15
20
25
time in hours based on sc4

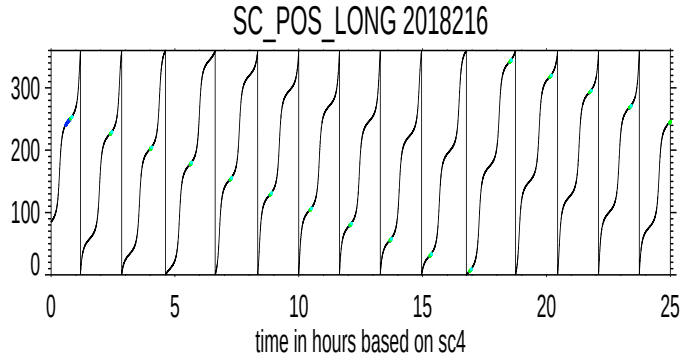

SUN_POS_X 2018216
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

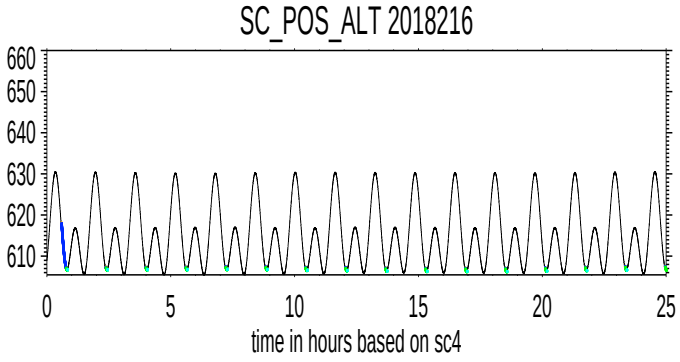

SUN_POS_Y 2018216
-0.972
-0.974
-0.976
-0.978
-0.980
-0.982
-0.984
0
5
10
15
20
25
time in hours based on sc4

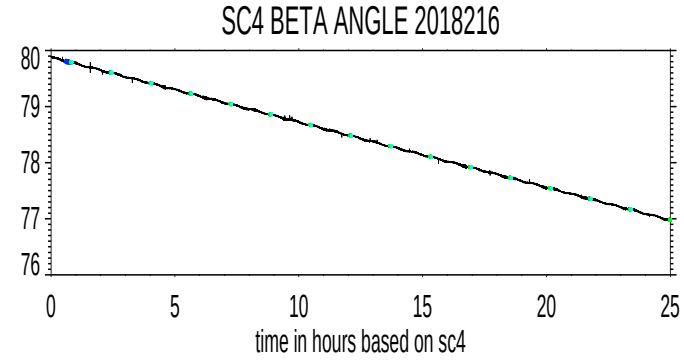

SUN_POS_Z 2018216
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2018216
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2018216
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2018216
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2018216
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2018216
80
79
78
77
76
0
5
10
15
20
25
time in hours based on sc4