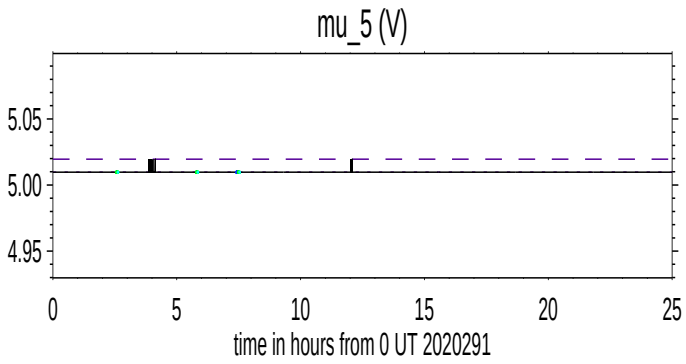
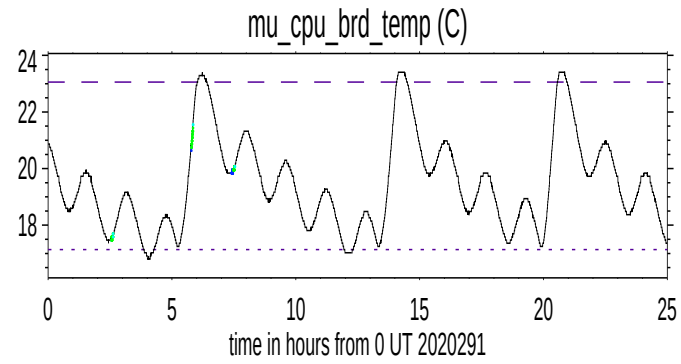
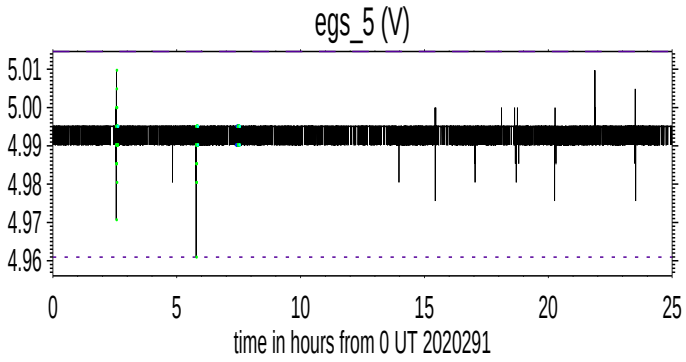
```
Information for      2020291
08:19:04.876: hk: 3 cmd pkt accepted   cmd = ODCs Loaded
08:19:19.876: hk: 9 cmd pkt accepted   cmd = ODCs Loaded
08:19:34.876: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
```

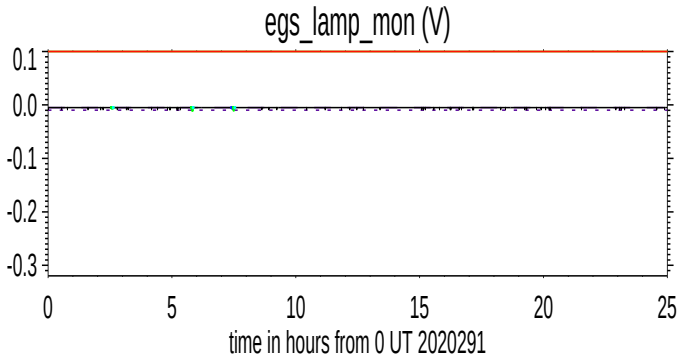
/export/timed/data/science_dp/tlm_limit/outoflimit_2020291_012.txt
Mon Nov 16 06:14:22 2020 1

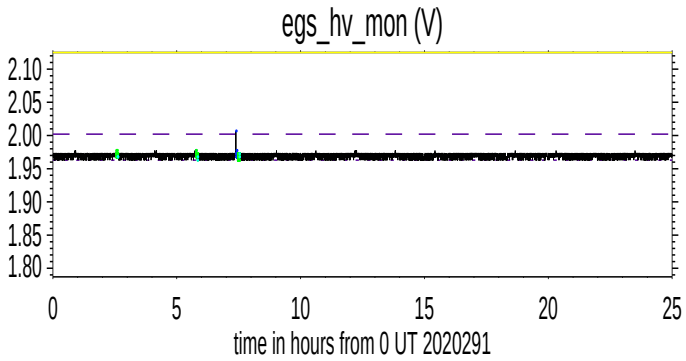
RH OutOfLimit 1286937147 1286955097 45 minute timeout length exceeded for ODC 255

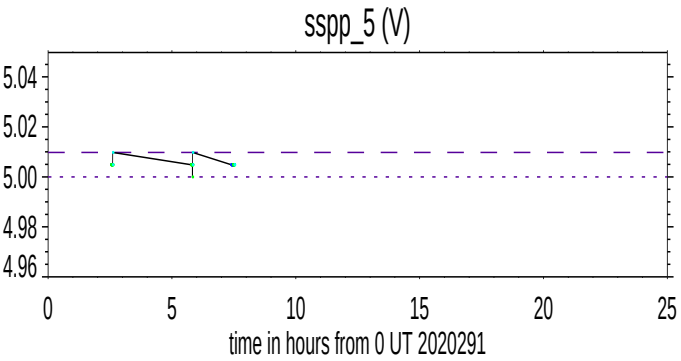

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020291

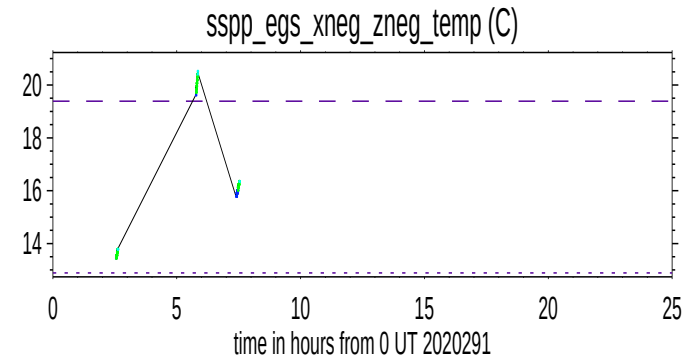

mu_cpu_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_5 (V)
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020291


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 2020291


egs_hv_mon (V)
2.10
2.05
2.00
1.95
1.90
1.85
1.80
0
5
10
15
20
25
time in hours from 0 UT 2020291


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 2020291


sspp_egs_xneg_zneg_temp (C)
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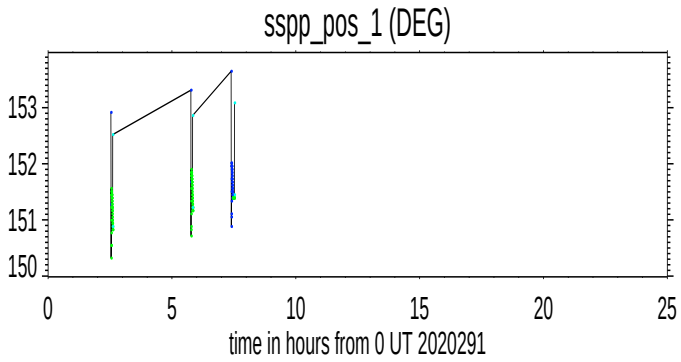
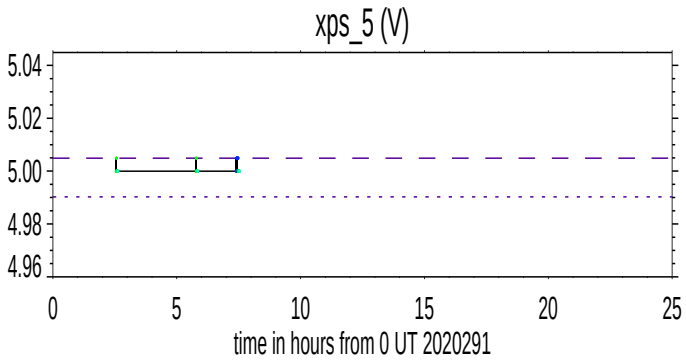
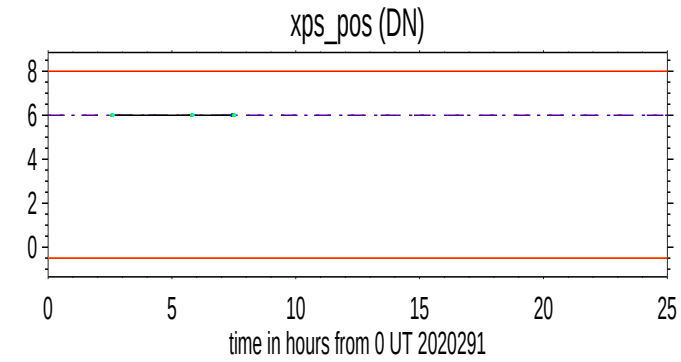
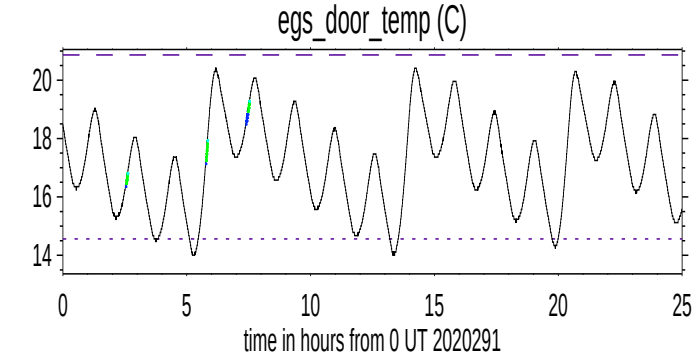
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291


sspp_pos_1 (DEG)
153
152
151
150
0
5
10
15
20
25
time in hours from 0 UT 2020291


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 2020291


xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_door_temp (C)
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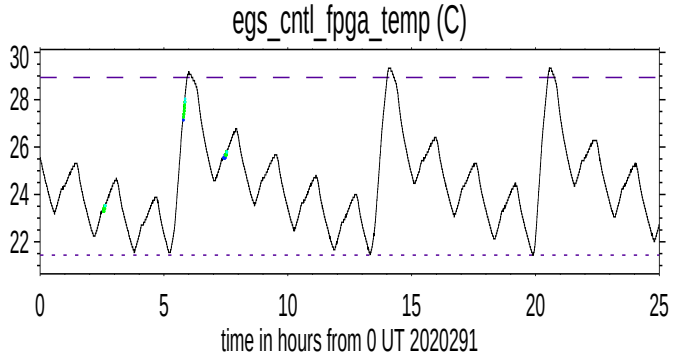
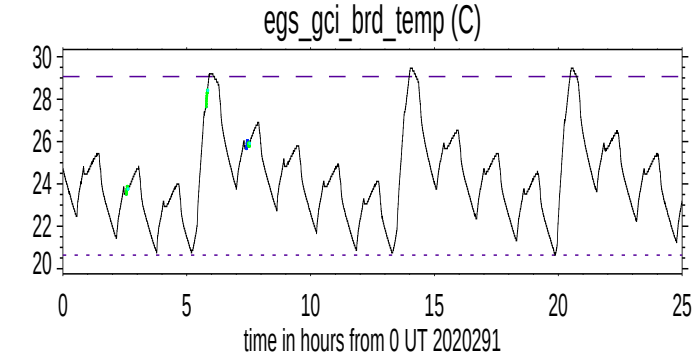
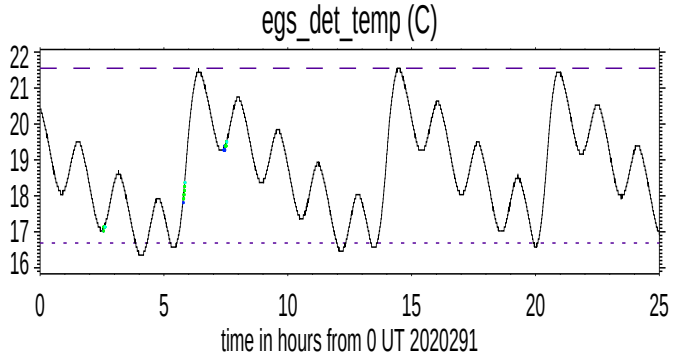
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_cntl_fpga_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_gci_brd_temp (C)
30
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_det_temp (C)
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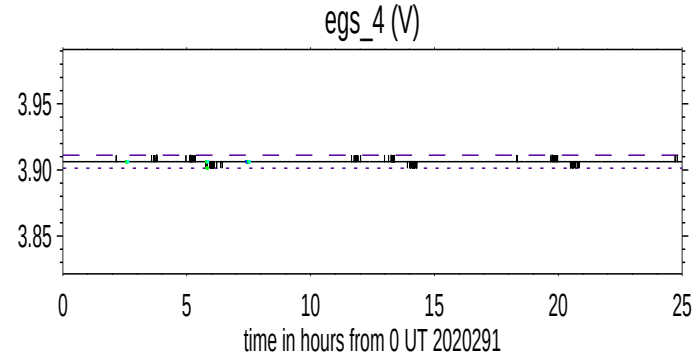
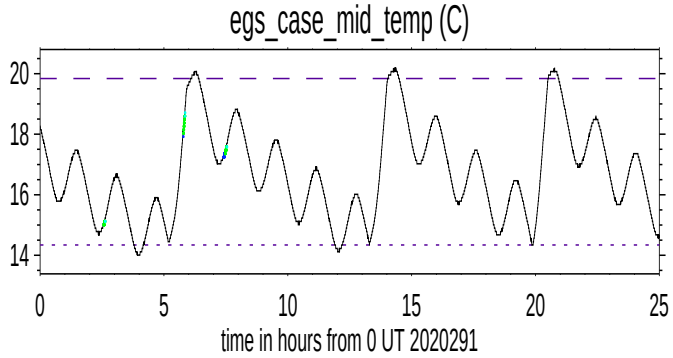
21
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_case_mid_temp (C)
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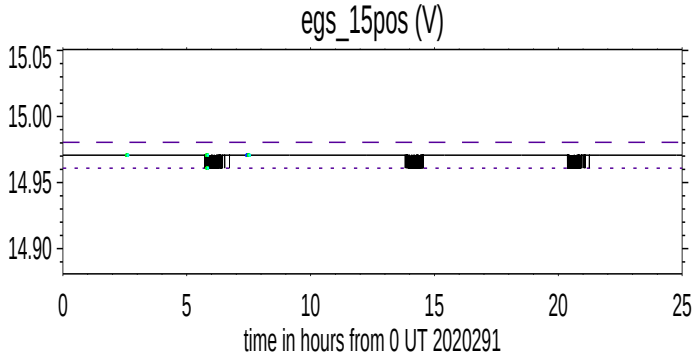
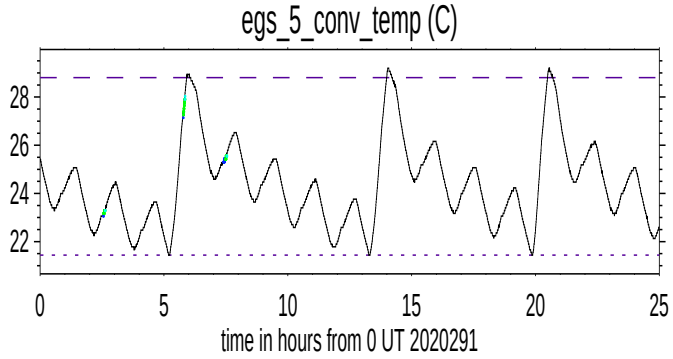
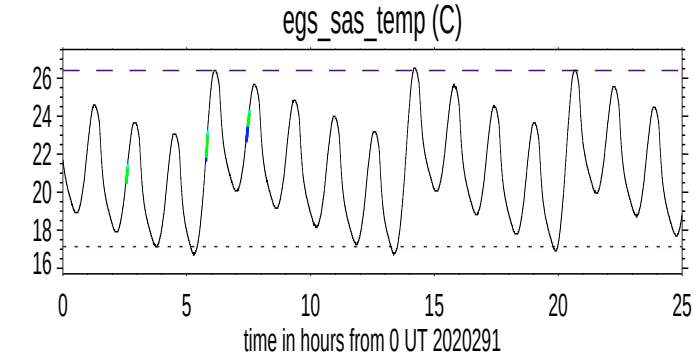
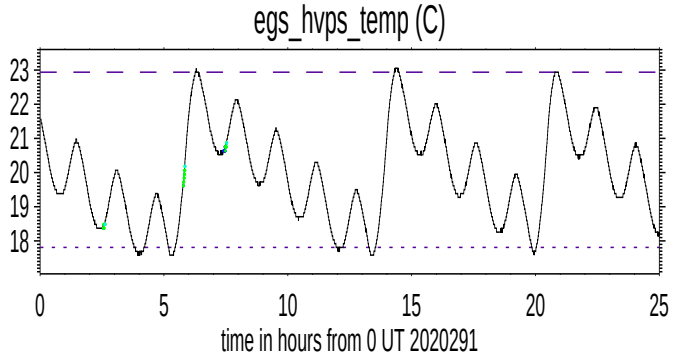
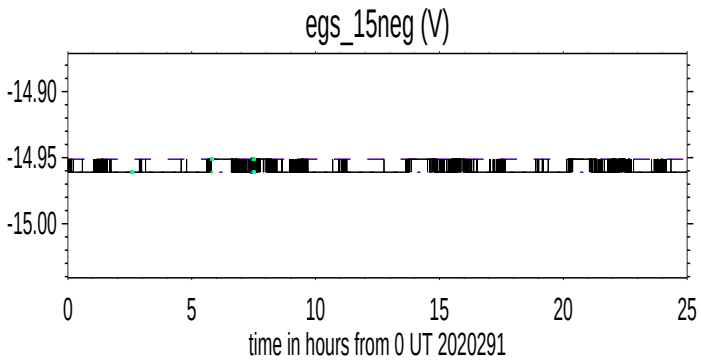
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

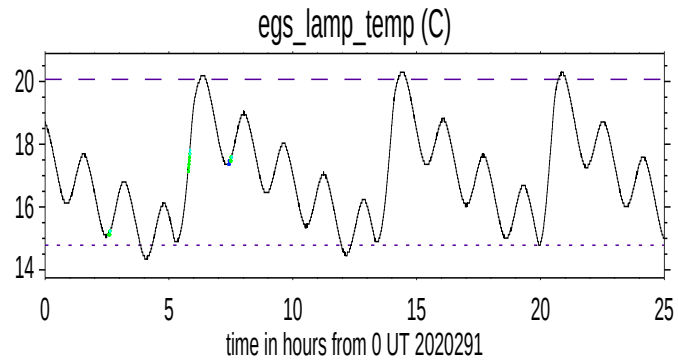

egs_15pos (V)
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2020291

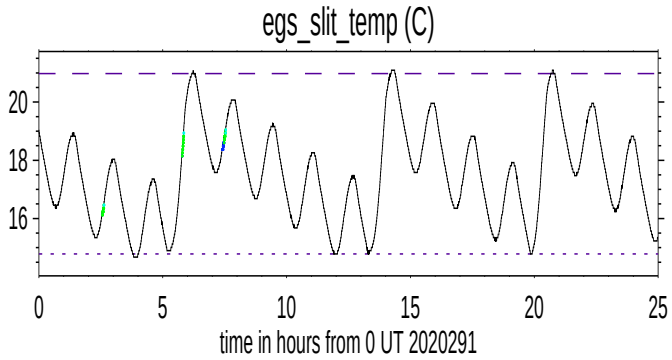

egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_sas_temp (C)
26
24
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_hvps_temp (C)
23
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2020291


egs_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2020291


egs_lamp_temp (C)
20
18
16
14
0 5 10 15 20 25
time in hours from 0 UT 2020291


egs_slit_temp (C)
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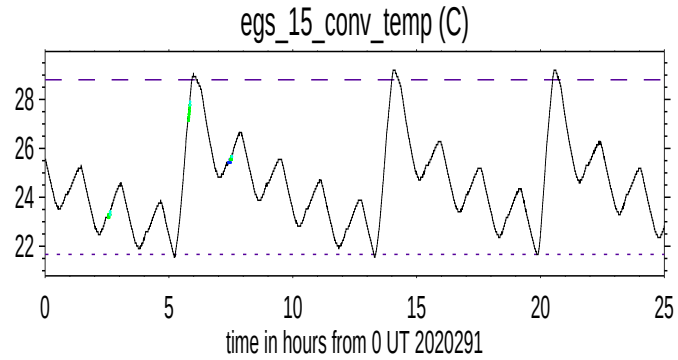
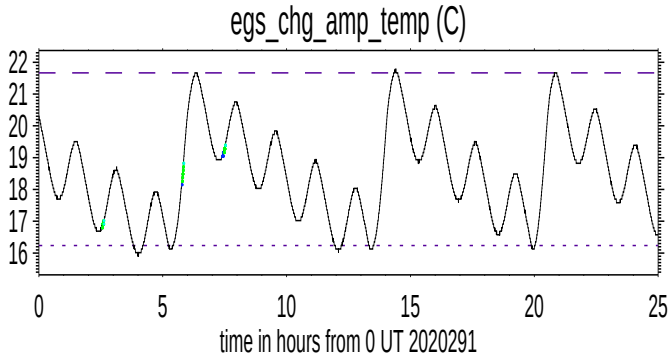
18
16
0 5 10 15 20 25
time in hours from 0 UT 2020291


egs_15_conv_temp (C)
28
26
24
22
0 5 10 15 20 25
time in hours from 0 UT 2020291


egs_chg_amp_temp (C)
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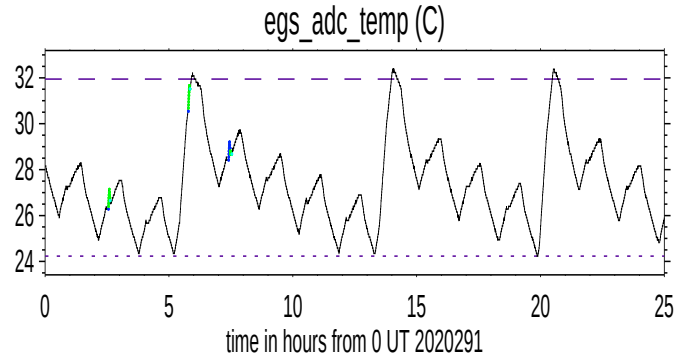
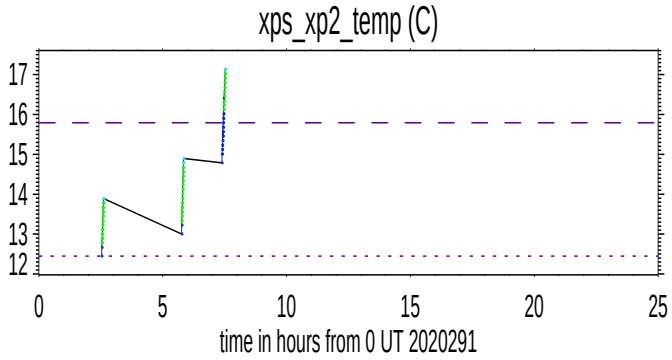
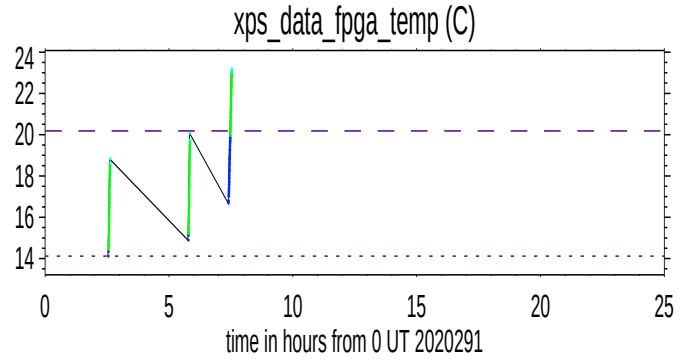
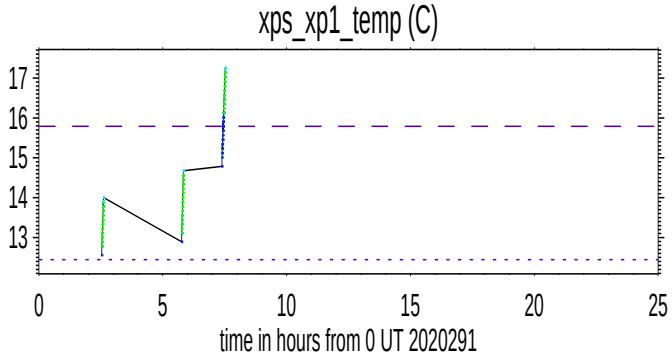
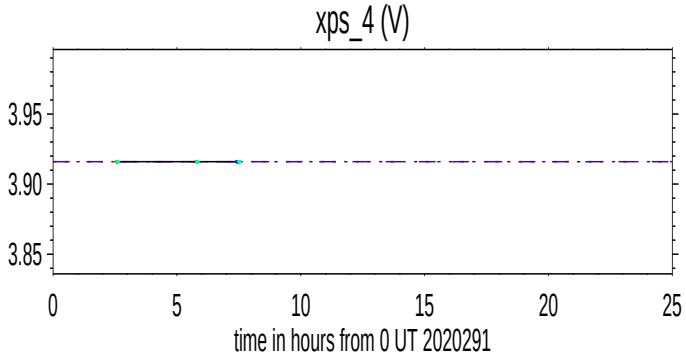
21
20
19
18
17
16
0 5 10 15 20 25
time in hours from 0 UT 2020291

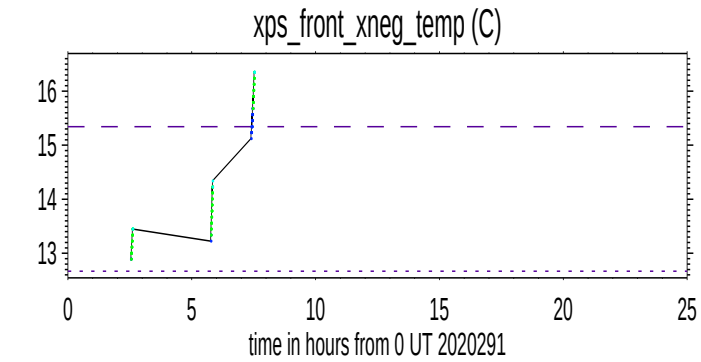

egs_adc_temp (C)
32
30
28
26
24
0 5 10 15 20 25
time in hours from 0 UT 2020291


xps_xp2_temp (C)
17
16
15
14
13
12
0 5 10 15 20 25
time in hours from 0 UT 2020291


xps_data_fpga_temp (C)
24
22
20
18
16
14
0 5 10 15 20 25
time in hours from 0 UT 2020291


xps_xp1_temp (C)
17
16
15
14
13
0 5 10 15 20 25
time in hours from 0 UT 2020291


xps_4 (V)
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2020291


xps_front_xneg_temp (C)
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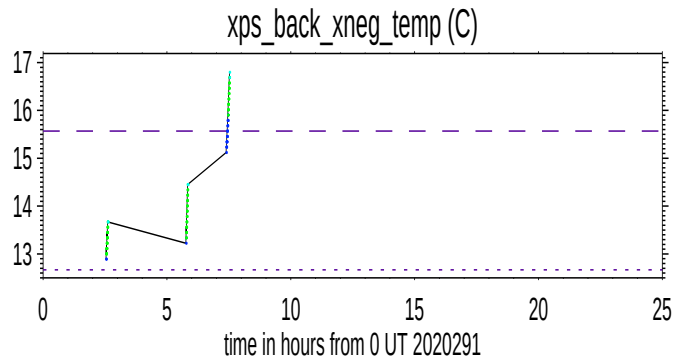
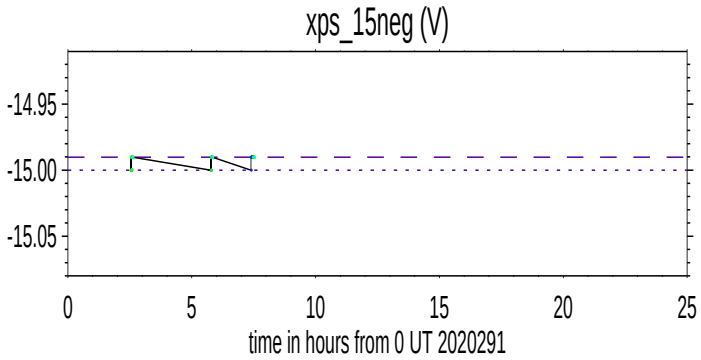
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2020291


xps_back_xneg_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2020291


xps_15neg (V)
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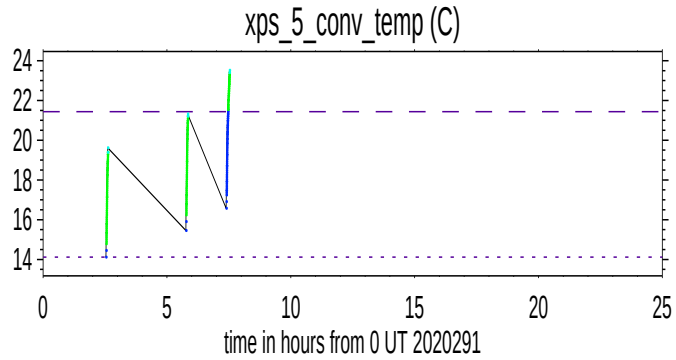
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020291


xps_5_conv_temp (C)
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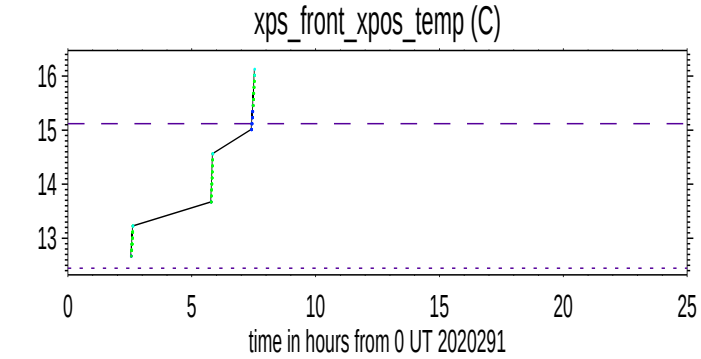
5
10
15
20
25
time in hours from 0 UT 2020291


xps_front_xpos_temp (C)
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13
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5
10
15
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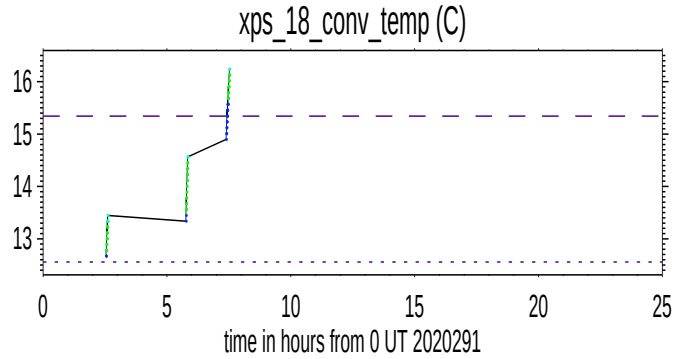
25
time in hours from 0 UT 2020291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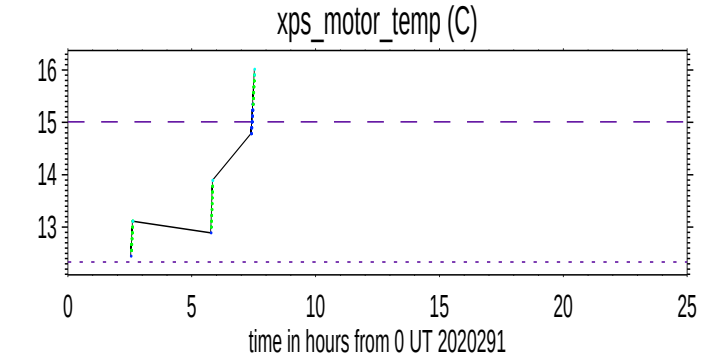
10
15
20
25
time in hours from 0 UT 2020291


xps_motor_temp (C)
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15
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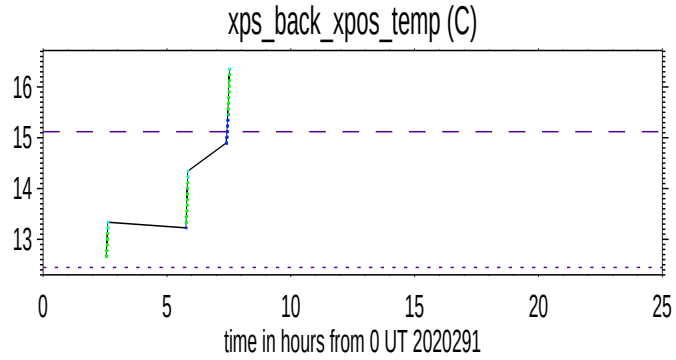
25
time in hours from 0 UT 2020291


xps_back_xpos_temp (C)
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13
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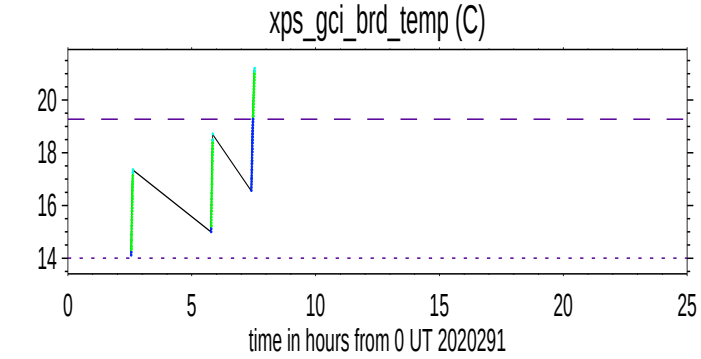
5
10
15
20
25
time in hours from 0 UT 2020291


xps_gci_brd_temp (C)
20
18
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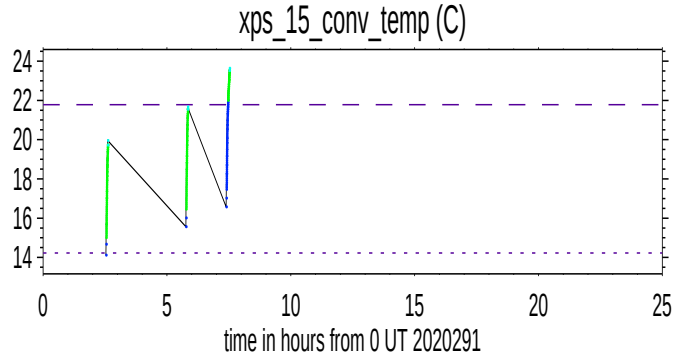
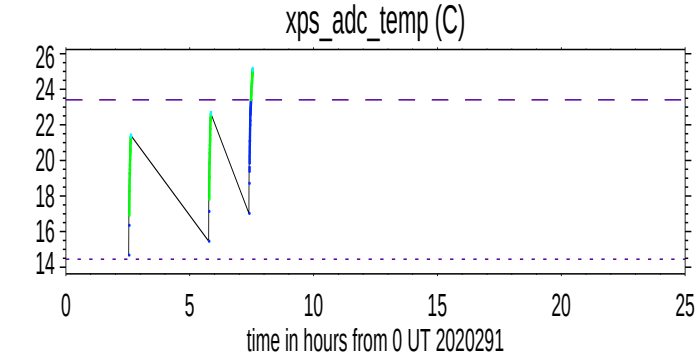
14
0
5
10
15
20
25
time in hours from 0 UT 2020291


xps_15_conv_temp (C)
24
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291


xps_adc_temp (C)
26
24
22
20
18
16
14
0
5
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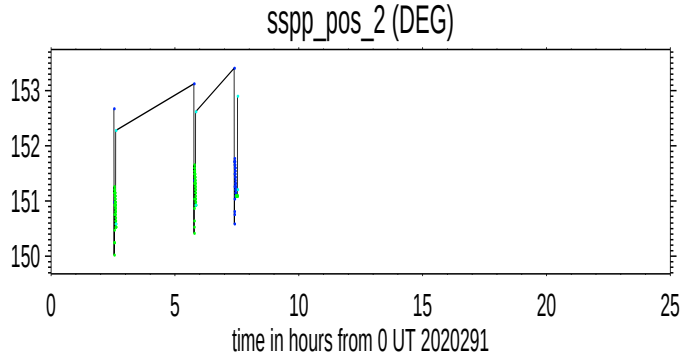
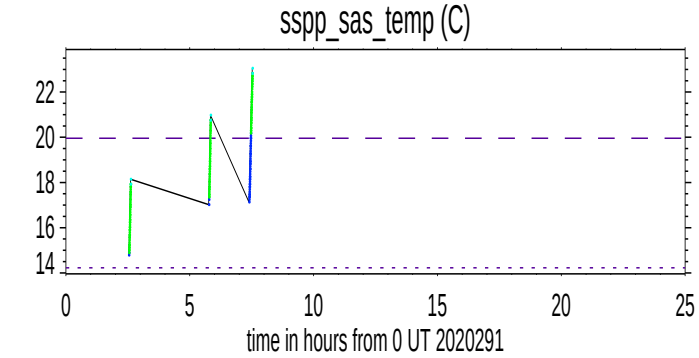
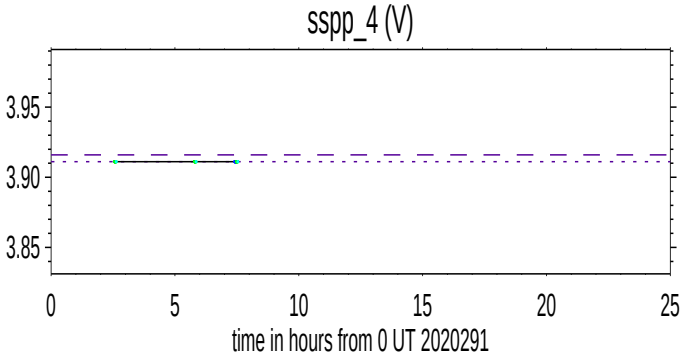
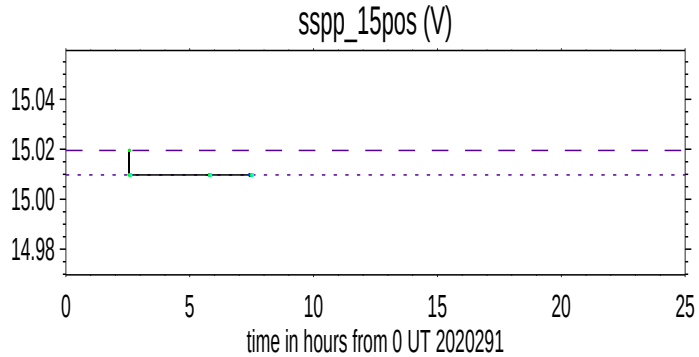
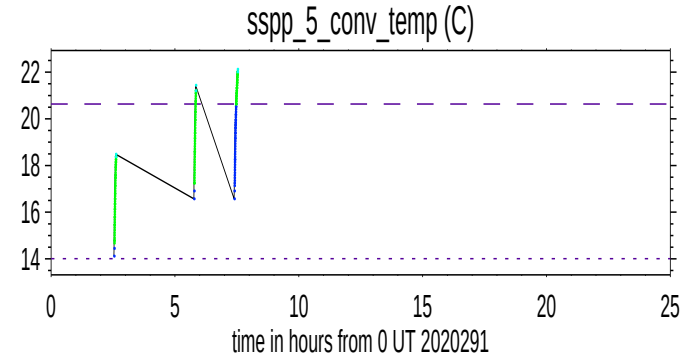
15
20
25
time in hours from 0 UT 2020291

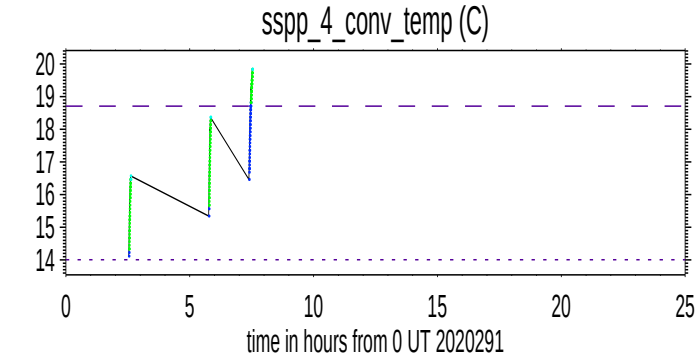

sspp_pos_2 (DEG)
153
152
151
150
0
5
10
15
20
25
time in hours from 0 UT 2020291

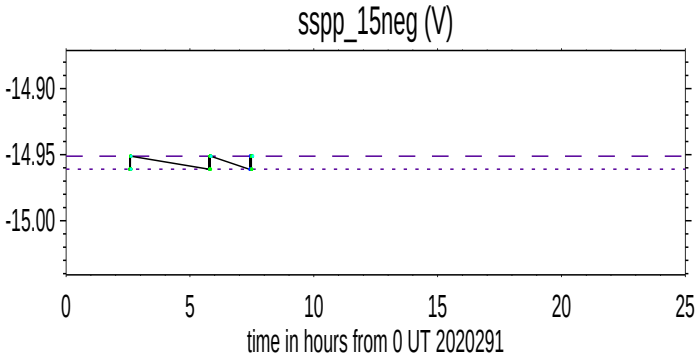

sspp_sas_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

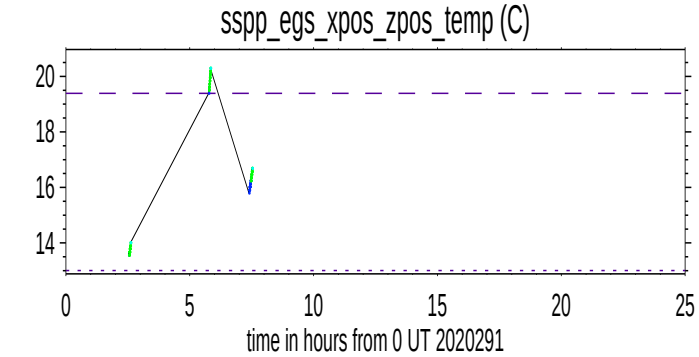

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020291

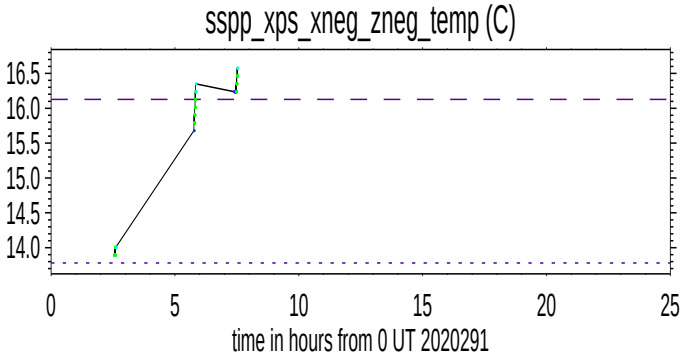

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020291

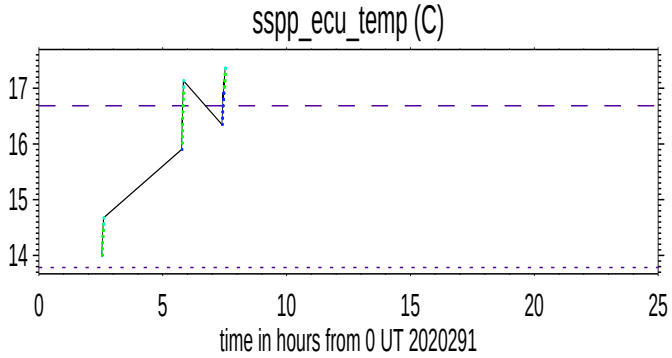

sspp_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

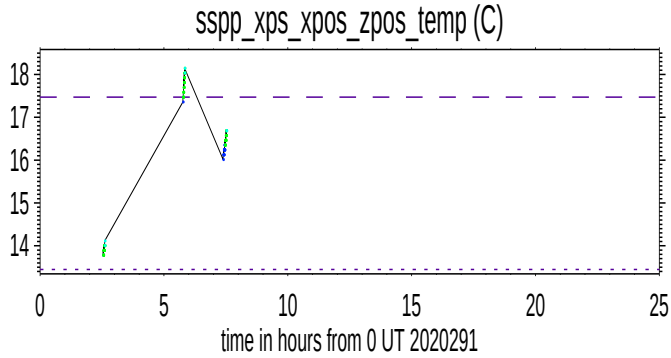

sspp_4_conv_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

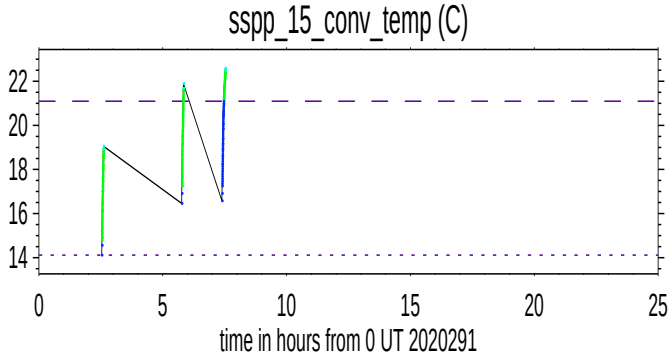

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020291

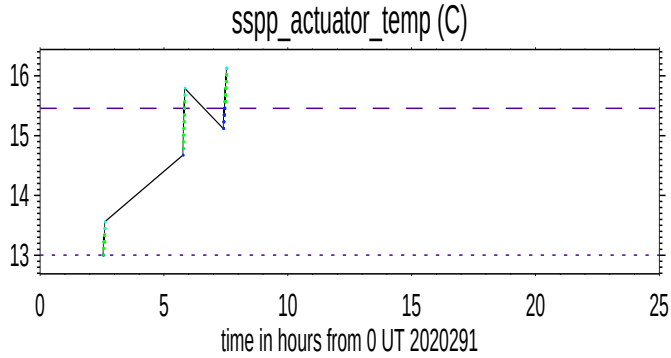

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

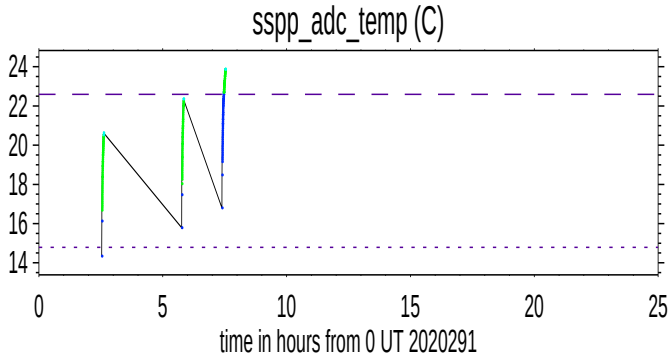

sspp_xps_xneg_zneg_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020291

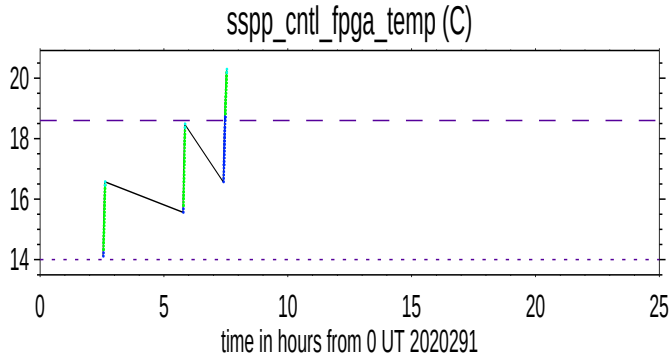

sspp_ecu_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

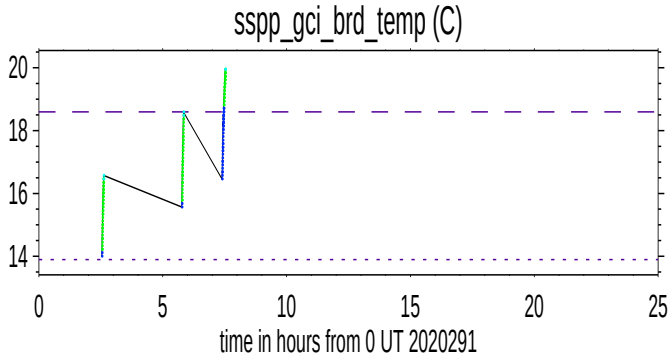

sspp_xps_xpos_zpos_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

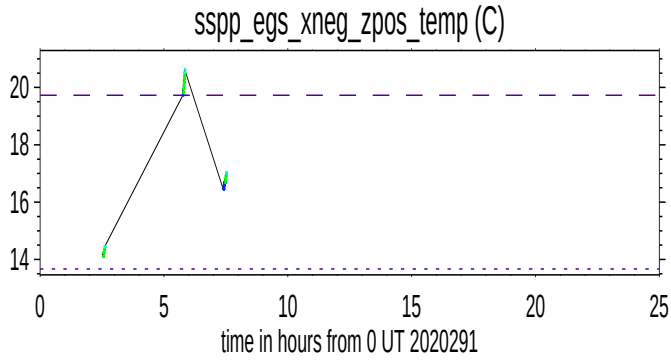

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

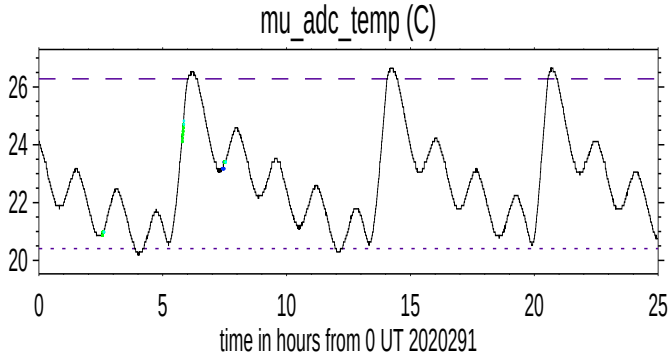

sspp_actuator_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2020291

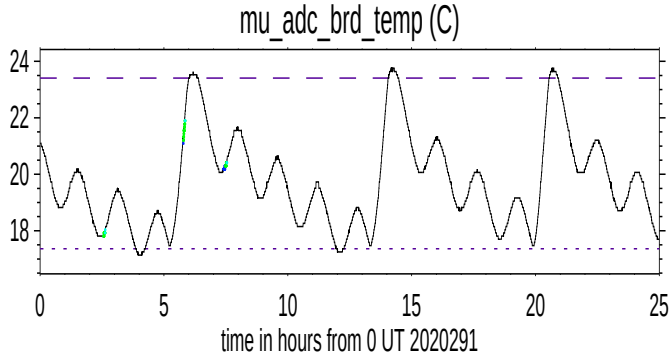

sspp_adc_temp (C)
24
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

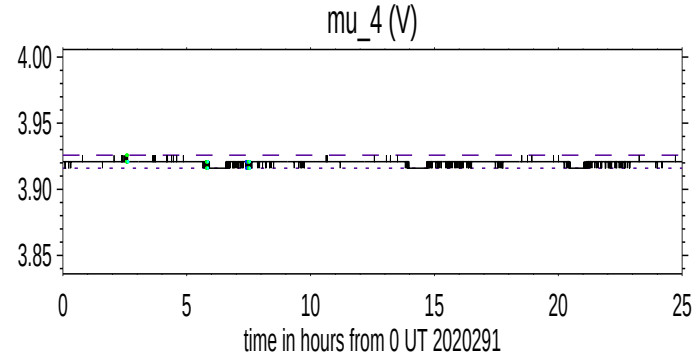

sspp_cntl_fpga_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

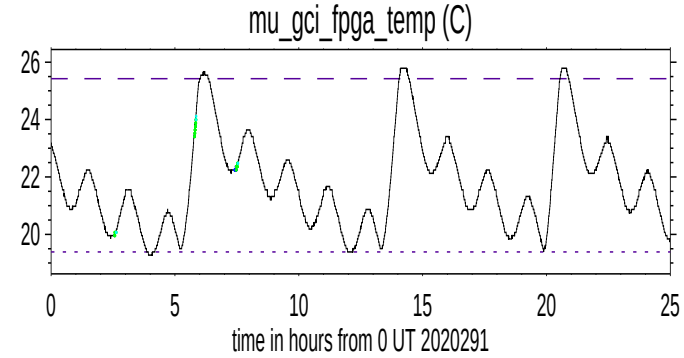

sspp_gci_brd_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

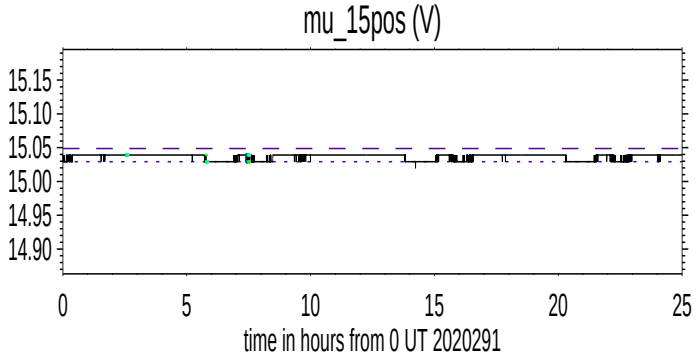

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020291

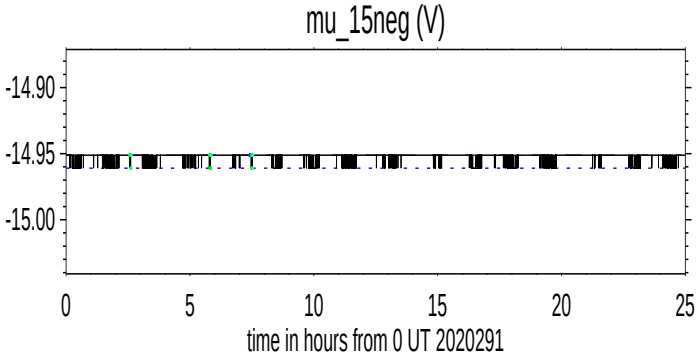

mu_adc_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020291

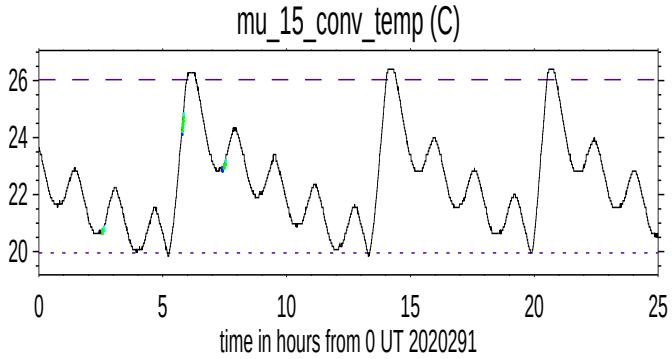

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020291

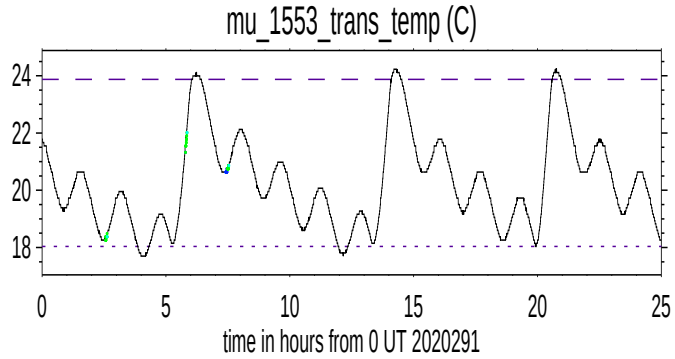

mu_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2020291

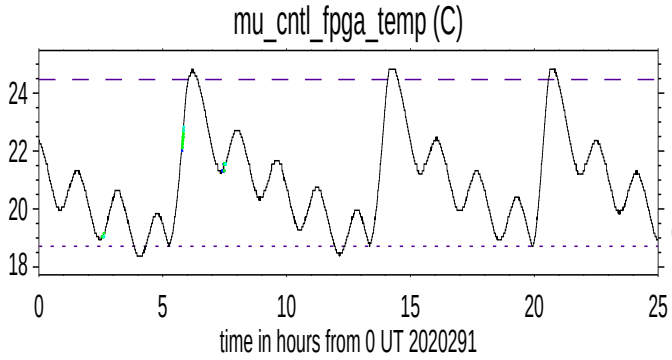

mu_gci_fpga_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2020291

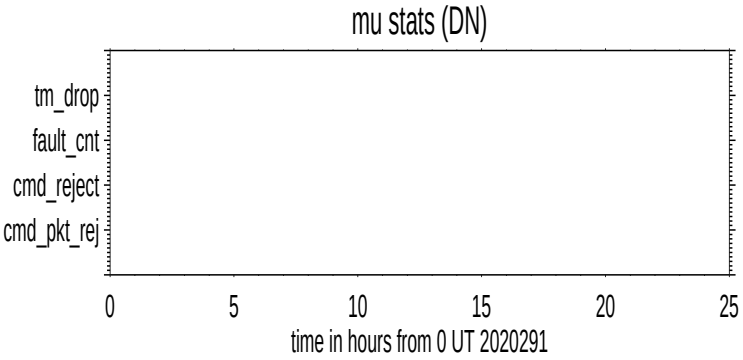

mu_15pos (V)
15.15
15.10
15.05
15.00
14.95
14.90
0 5 10 15 20 25
time in hours from 0 UT 2020291

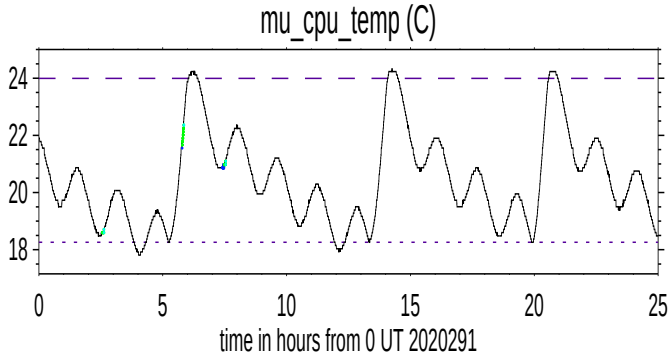

mu_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2020291

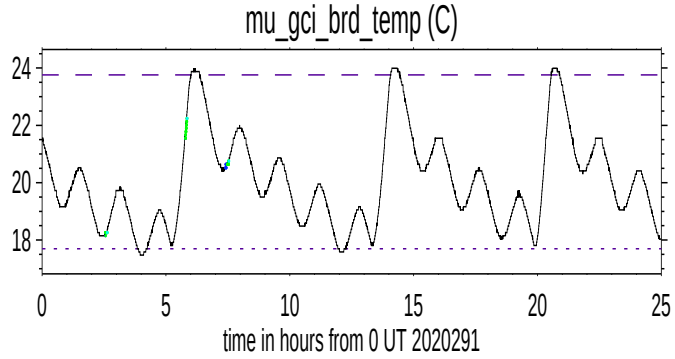

mu_15_conv_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2020291

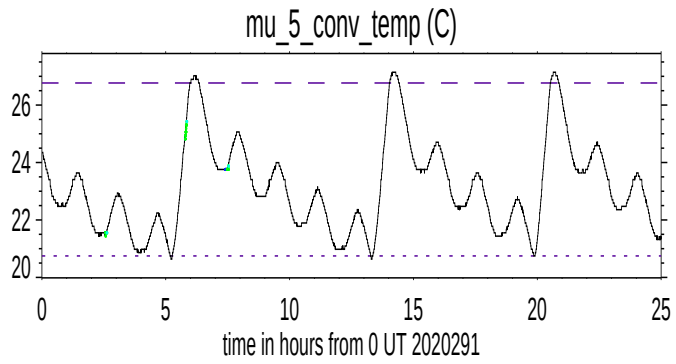

mu_1553_trans_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2020291

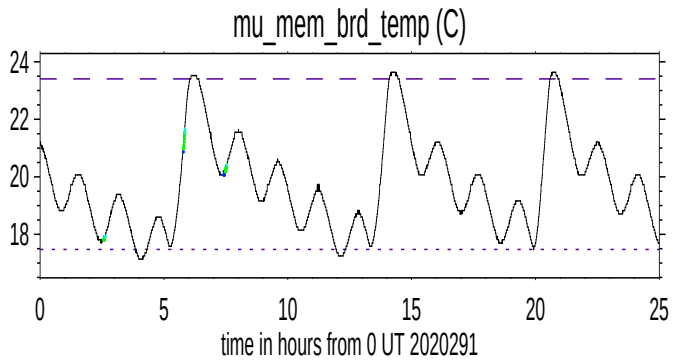

mu_cntl_fpga_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2020291

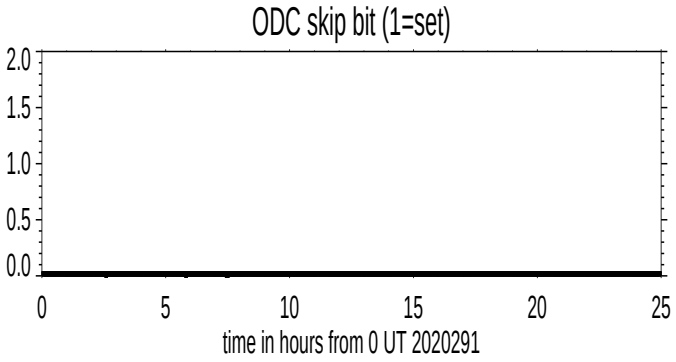

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0 5 10 15 20 25
time in hours from 0 UT 2020291

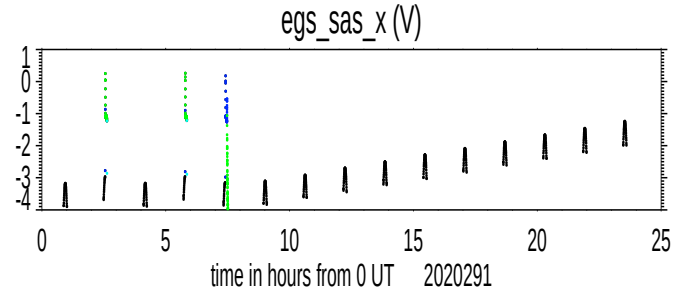

mu_cpu_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2020291

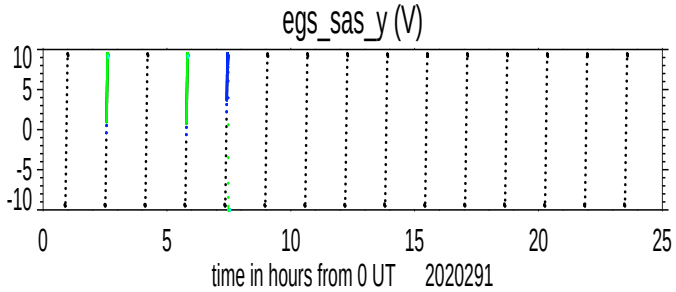

mu_gci_brd_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2020291

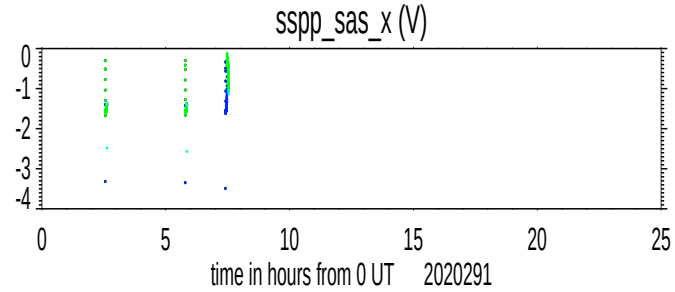

mu_5_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020291

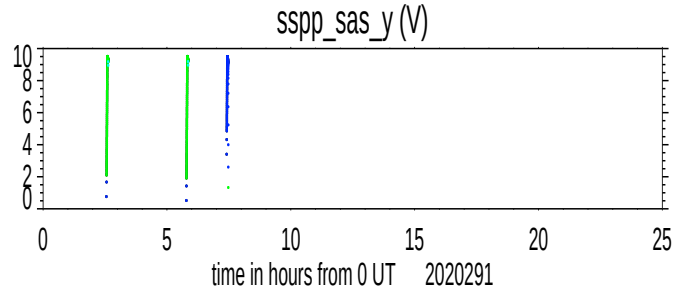

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020291

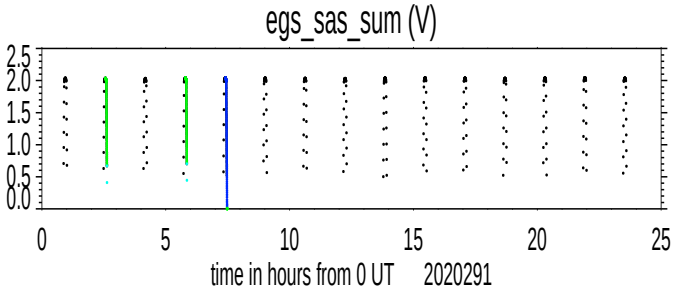

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020291

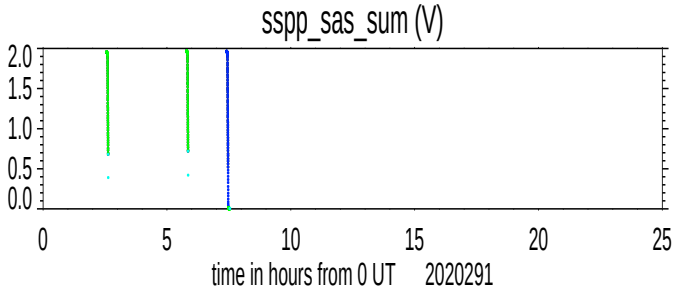

egs_sas_x (V)
time in hours from 0 UT 2020291

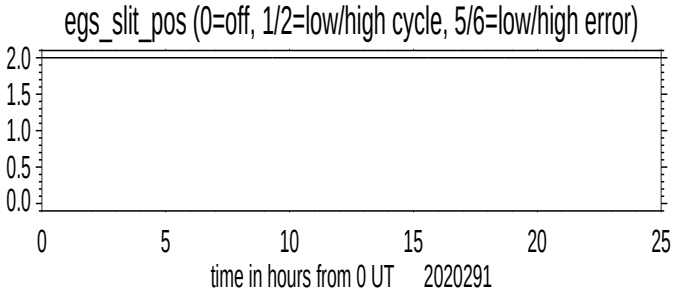

egs_sas_y (V)
time in hours from 0 UT 2020291

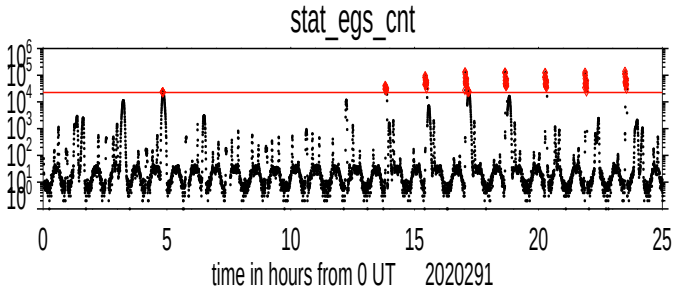

sspp_sas_x (V)
time in hours from 0 UT 2020291

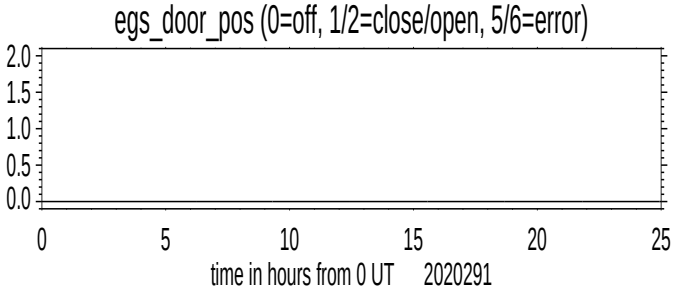

sspp_sas_y (V)
time in hours from 0 UT 2020291

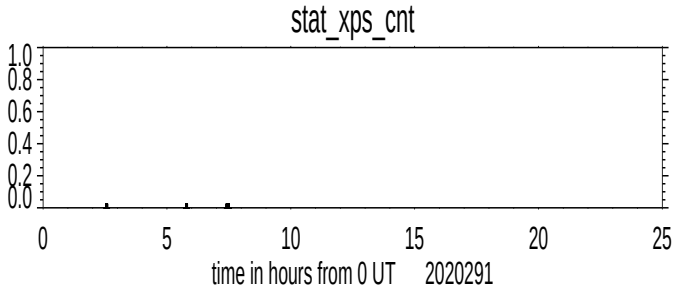

egs_sas_sum (V)
time in hours from 0 UT 2020291

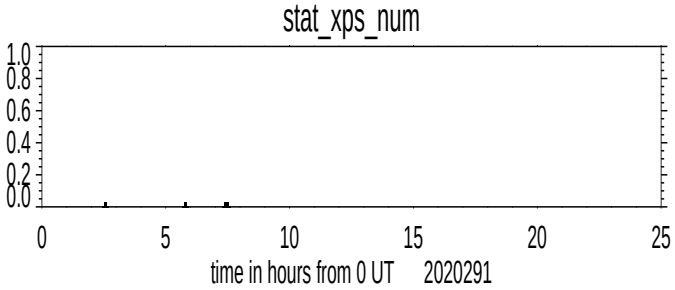

sspp_sas_sum (V)
time in hours from 0 UT 2020291

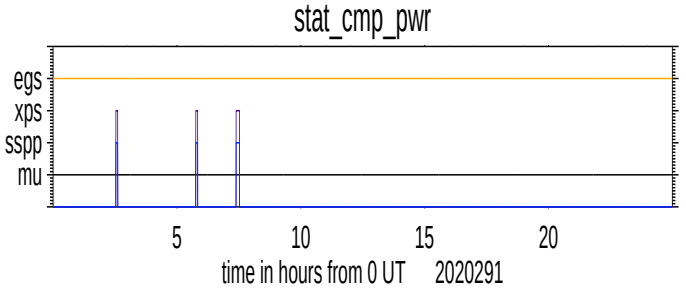

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2020291


stat_egs_cnt
time in hours from 0 UT 2020291

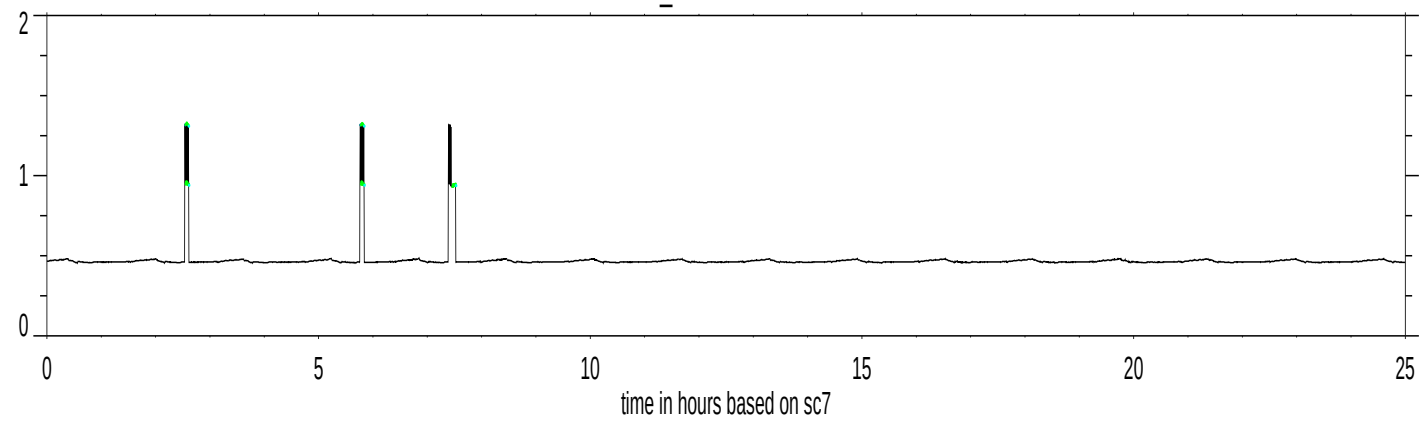

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2020291


stat_xps_cnt
time in hours from 0 UT 2020291

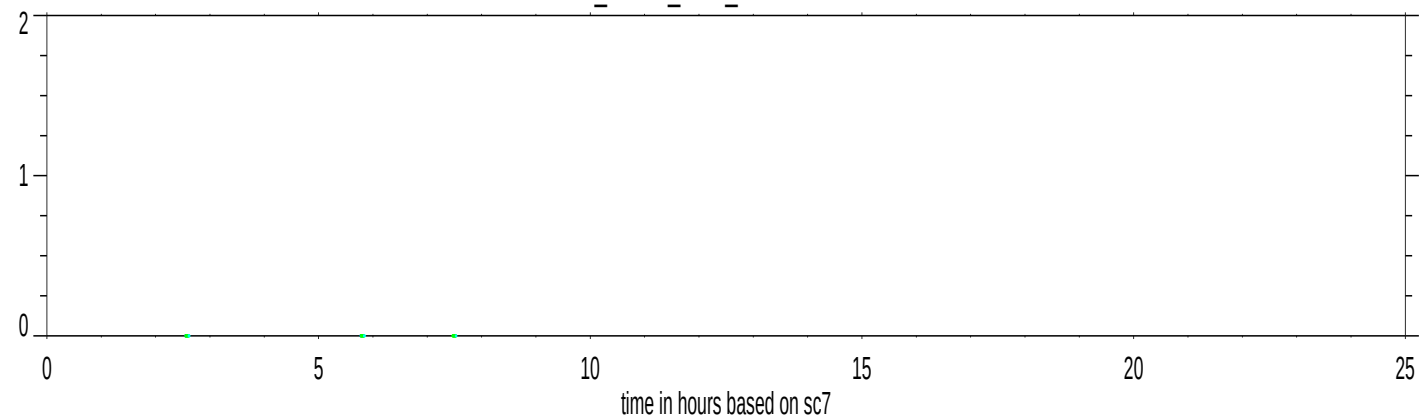

stat_xps_num
time in hours from 0 UT 2020291


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2020291

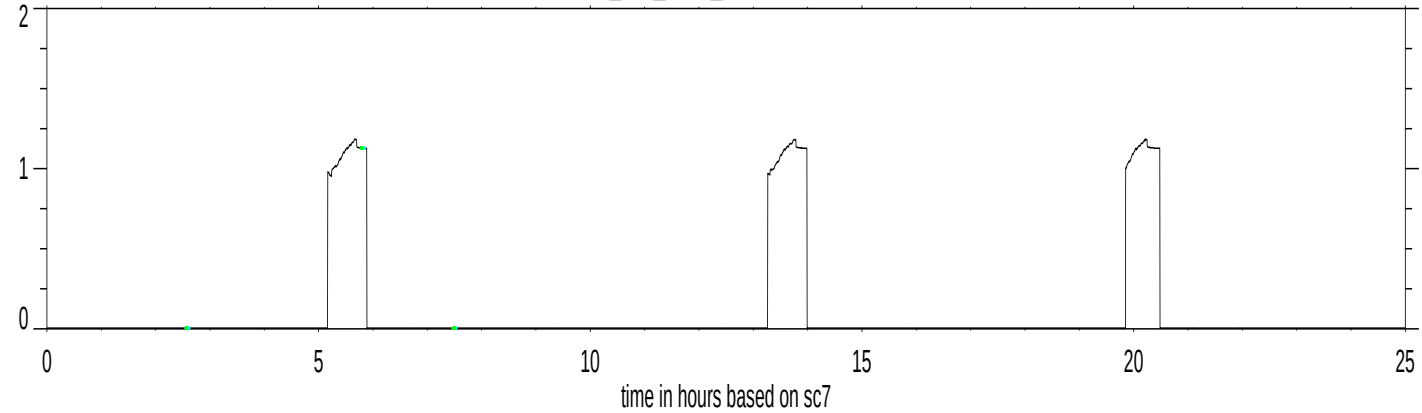
SEE_CUR 2020291



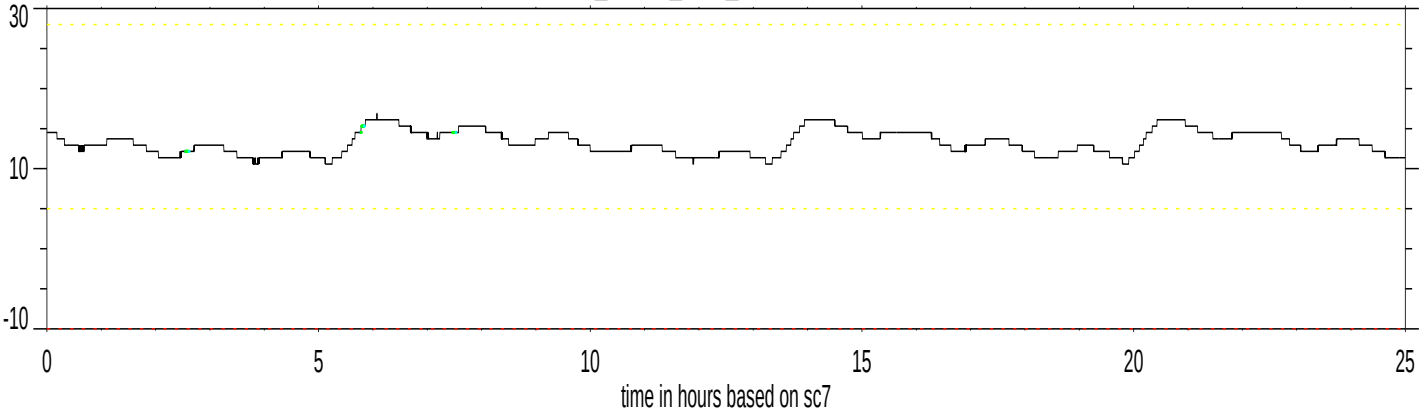
SEE_SURV_HTR_CUR 2020291



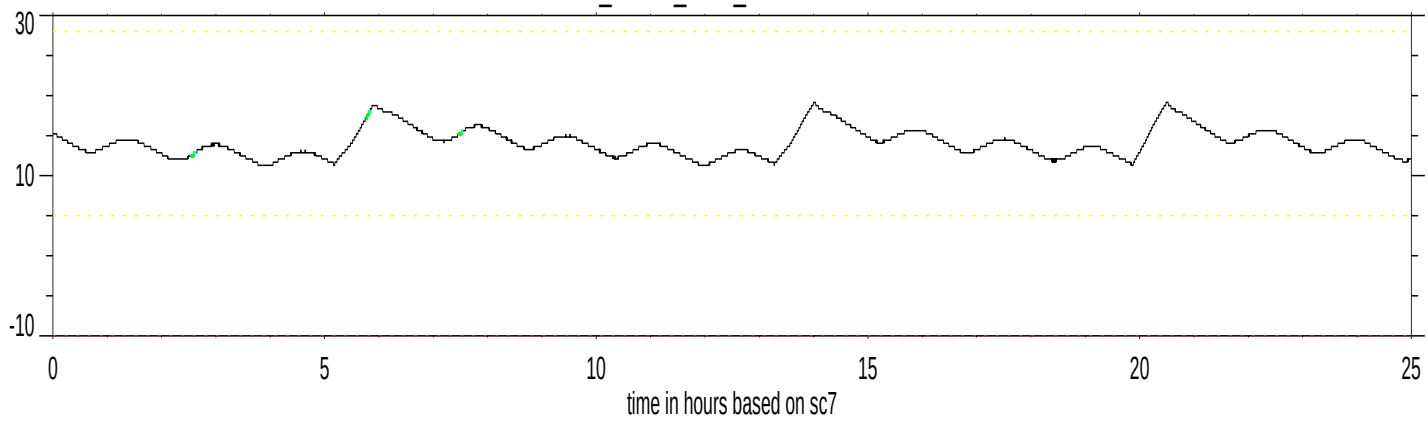
SEE_OP_HTR_CUR 2020291



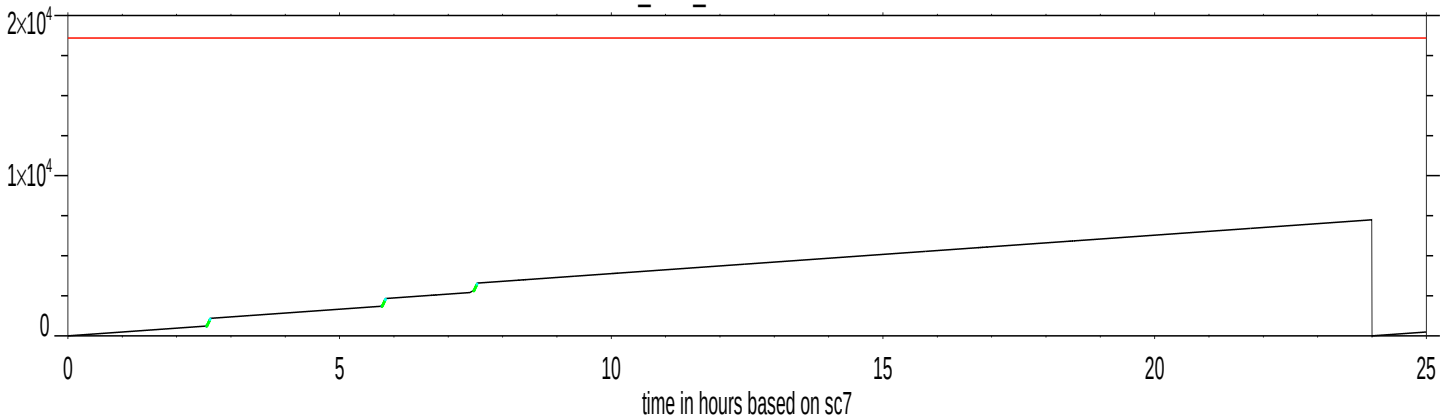
SSPP_BHND_XPS_TEMP 2020291



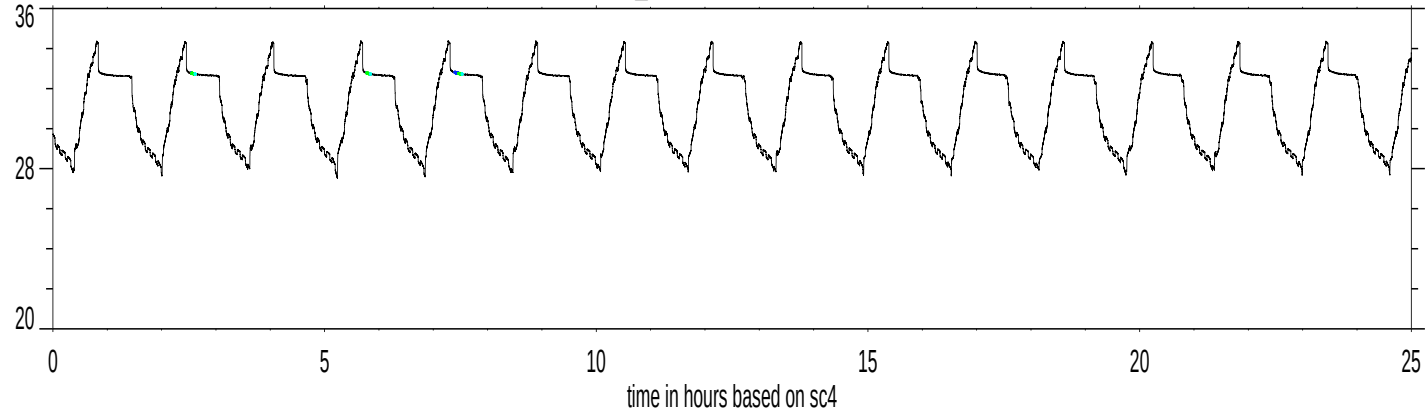
SSPP_BHND_MTR_TEMP 2020291



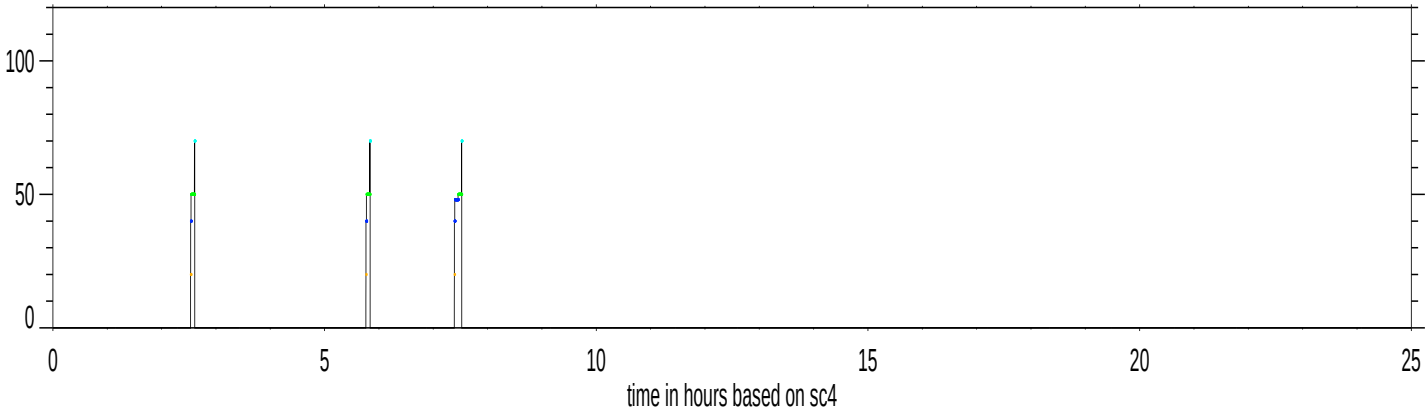
SEE_PKT_COUNT 2020291

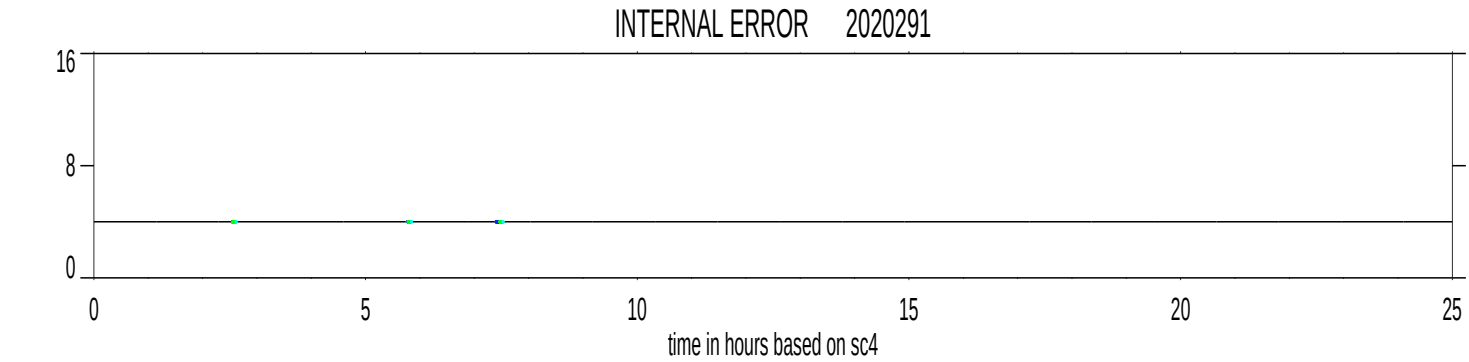


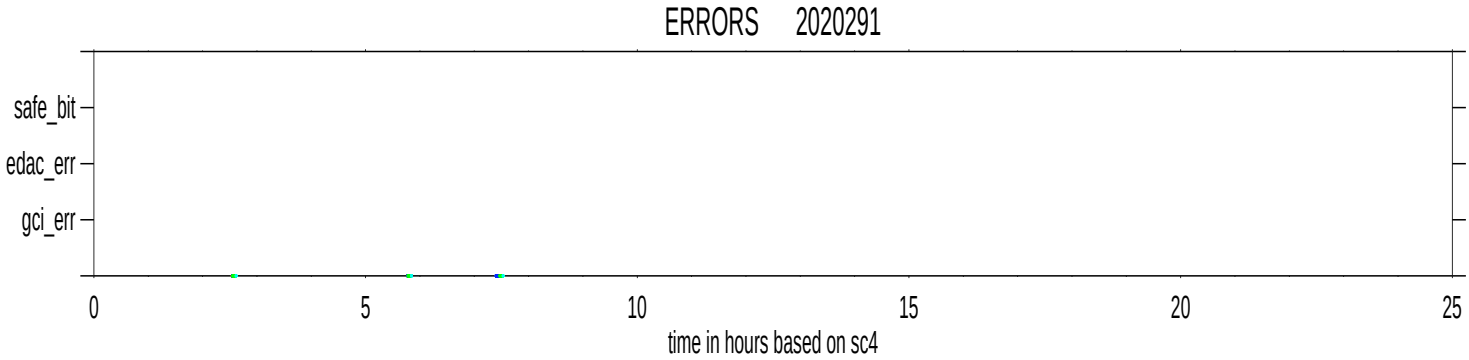
BUS_VOLTAGE 2020291

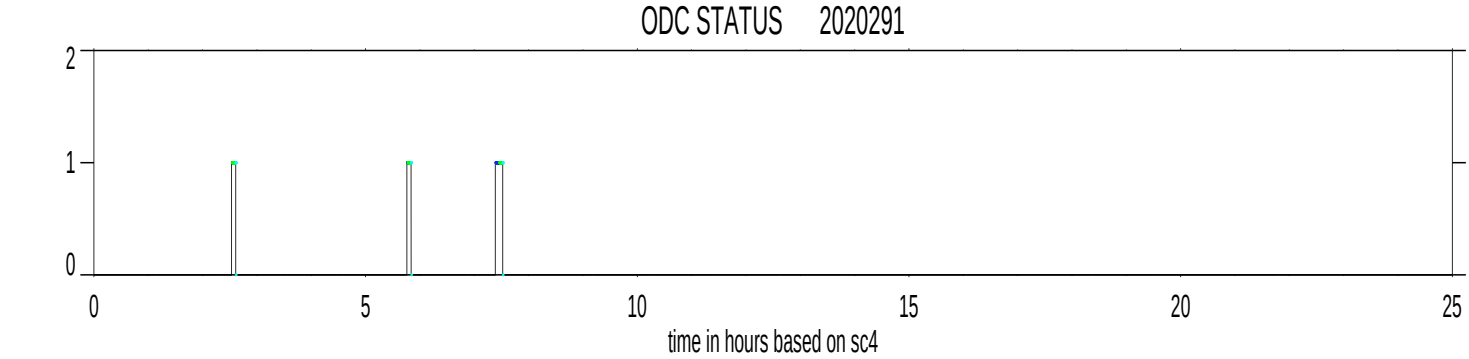


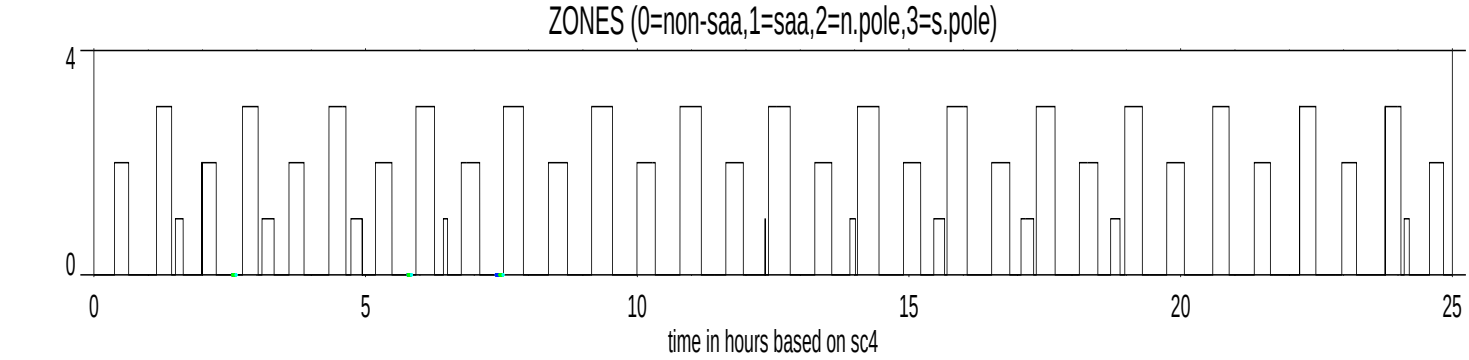
SEE_MU Operational Mode 2020291

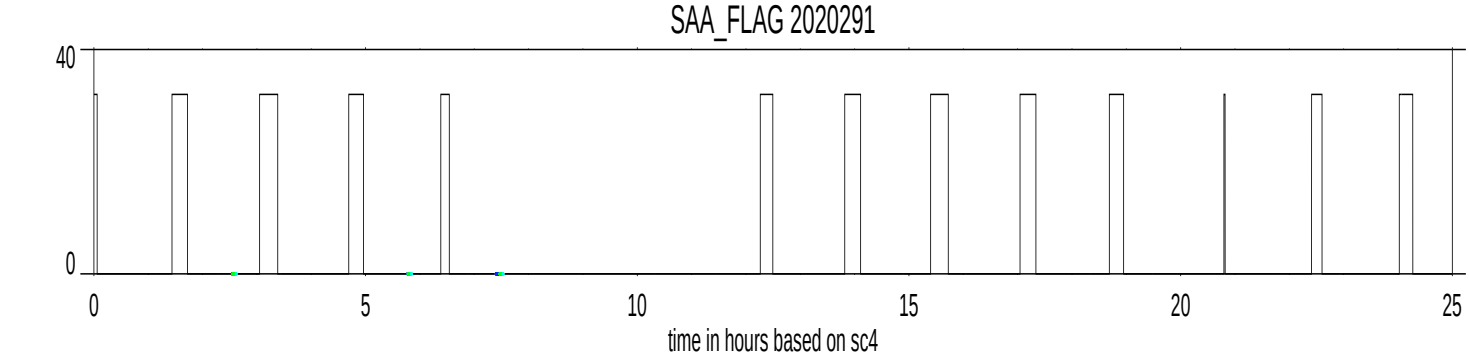


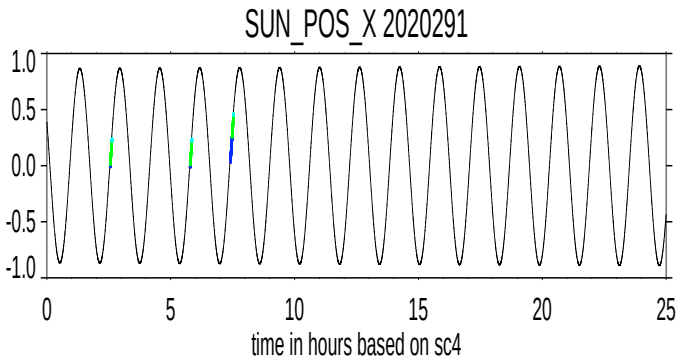

INTERNAL ERROR 2020291
16
8
0
0
5
10
15
20
25
time in hours based on sc4

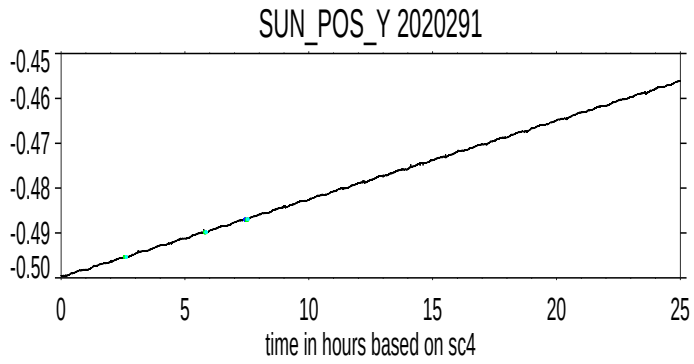

ERRORS 2020291
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

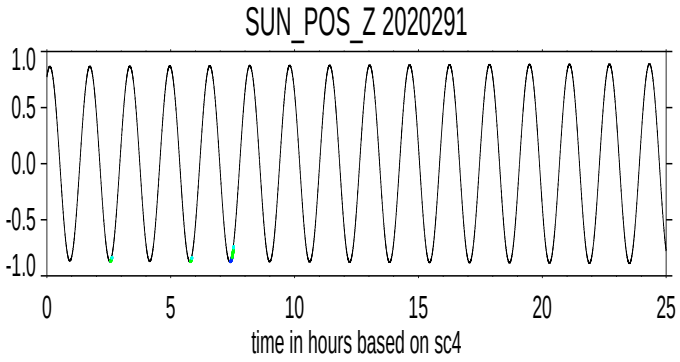

ODC STATUS 2020291
2
1
0
0
5
10
15
20
25
time in hours based on sc4

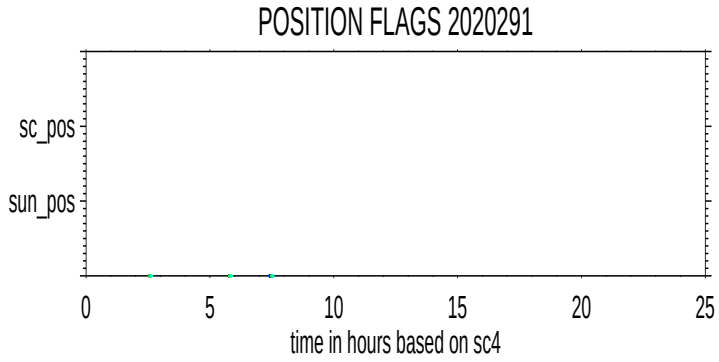

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

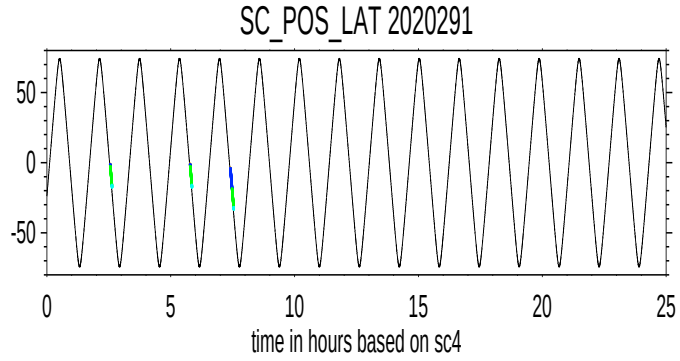

SAA_FLAG 2020291
40
0
0
5
10
15
20
25
time in hours based on sc4

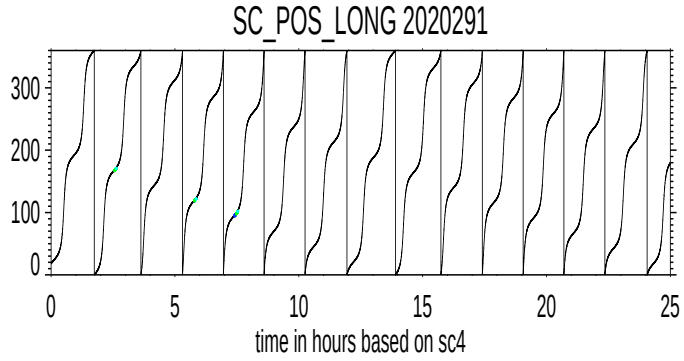

SUN_POS_X 2020291
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

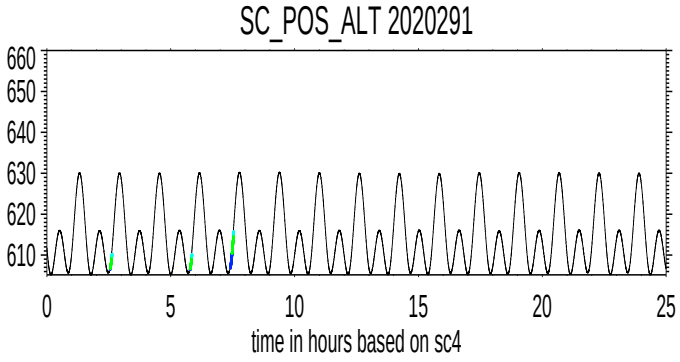

SUN_POS_Y 2020291
-0.45
-0.46
-0.47
-0.48
-0.49
-0.50
0
5
10
15
20
25
time in hours based on sc4

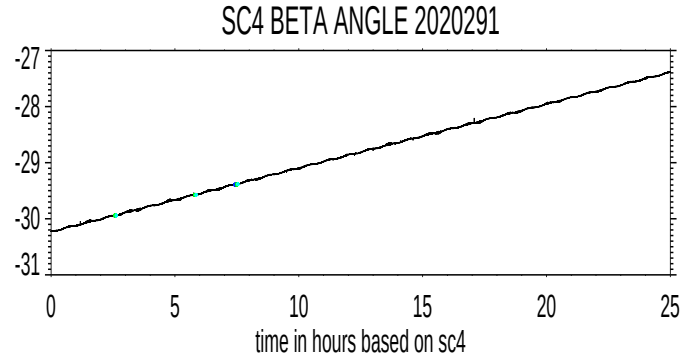

SUN_POS_Z 2020291
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020291
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020291
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020291
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020291
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020291
-27
-28
-29
-30
-31
0
5
10
15
20
25
time in hours based on sc4