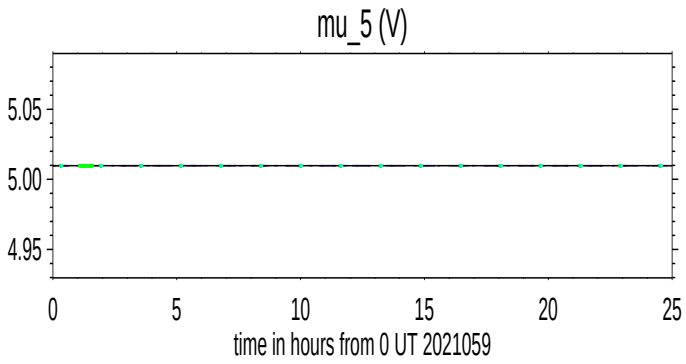
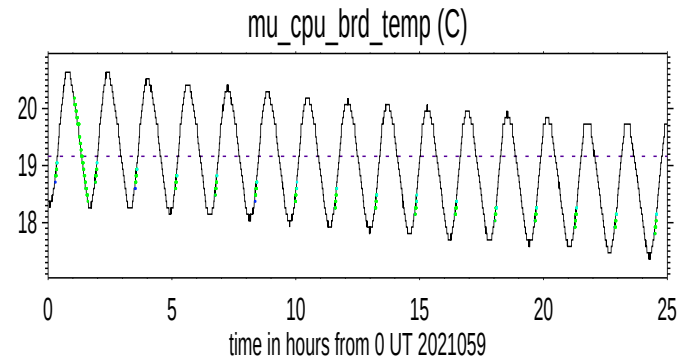
```
Information for      2021059
04:12:02.000: see_stat[1]: 3 internal error
```

/export/timed/data/science_dp/tlm_limit/outoflimit_2021059_012.txt
Tue Mar 30 06:14:06 2021 1

RH OutOfLimit 1298505629 1298595609 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 2021059


mu_cpu_brd_temp (C)
20
19
18
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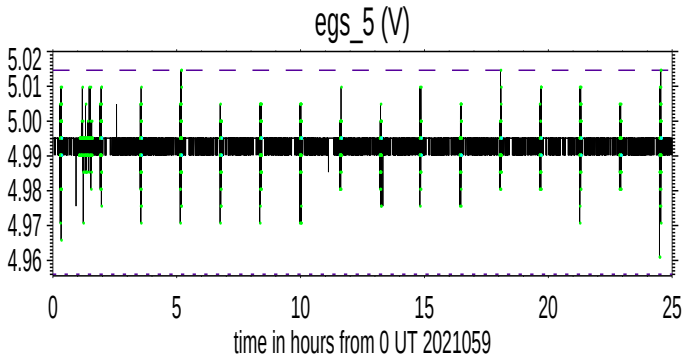
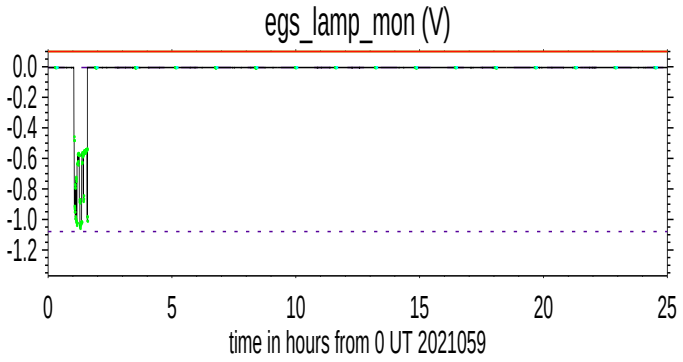
5
10
15
20
25
time in hours from 0 UT 2021059


egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
0
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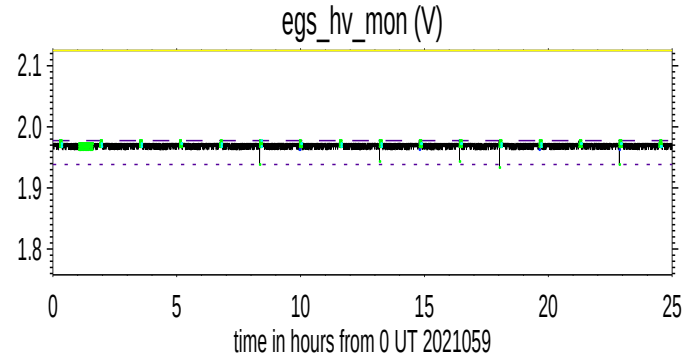
10
15
20
25
time in hours from 0 UT 2021059


egs_hv_mon (V)
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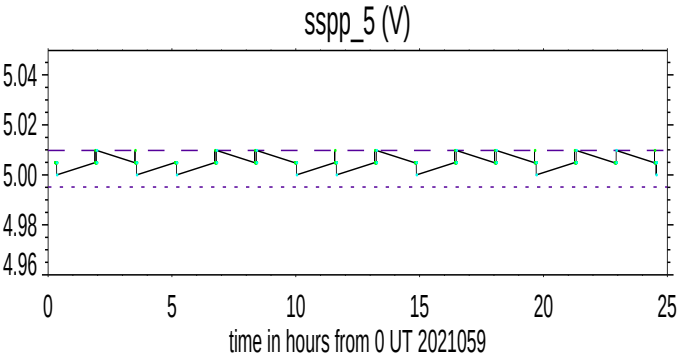
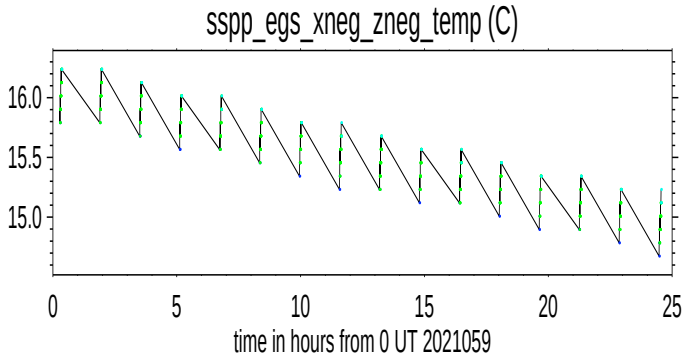
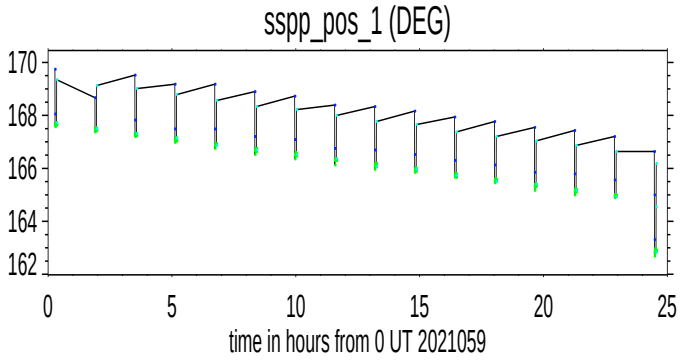
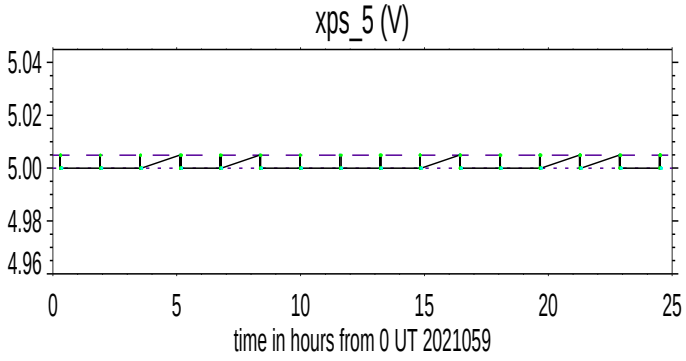
2.0
1.9
1.8
0
5
10
15
20
25
time in hours from 0 UT 2021059


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 2021059


sspp_egs_xneg_zneg_temp (C)
16.0
15.5
15.0
0
5
10
15
20
25
time in hours from 0 UT 2021059


sspp_pos_1 (DEG)
170
168
166
164
162
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_5 (V)
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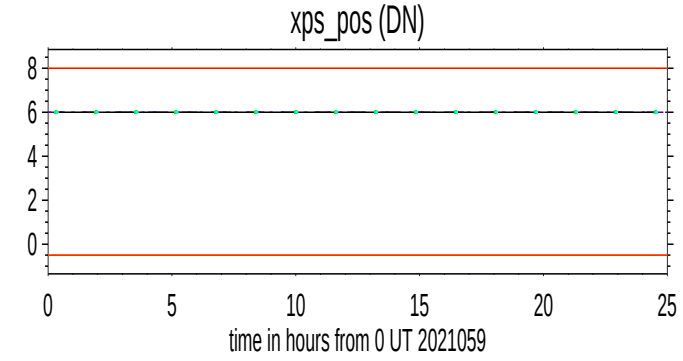
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021059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6
4
2
0
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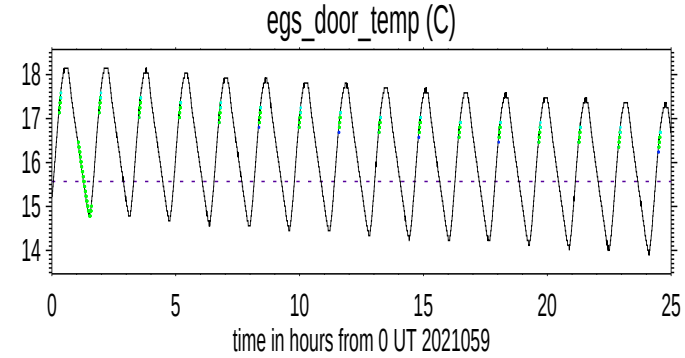
time in hours from 0 UT 2021059


egs_door_temp (C)
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17
16
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14
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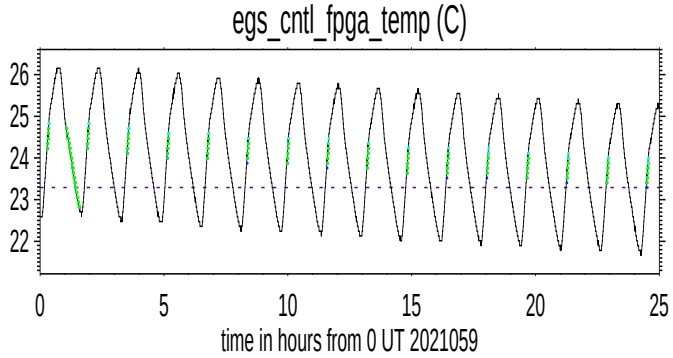
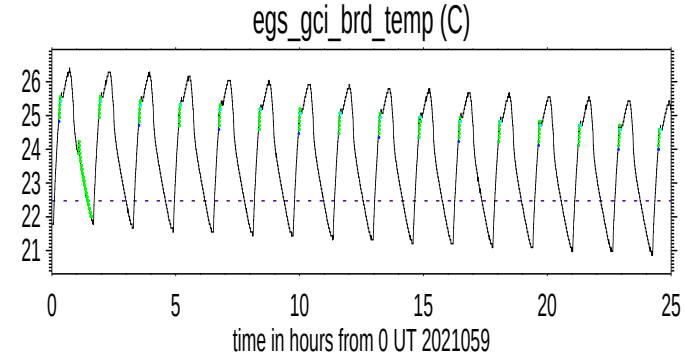
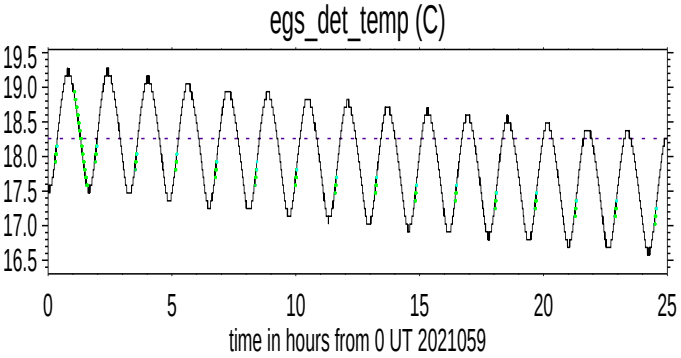
5
10
15
20
25
time in hours from 0 UT 2021059


egs_cntl_fpga_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_gci_brd_temp (C)
26
25
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_det_temp (C)
19.5
19.0
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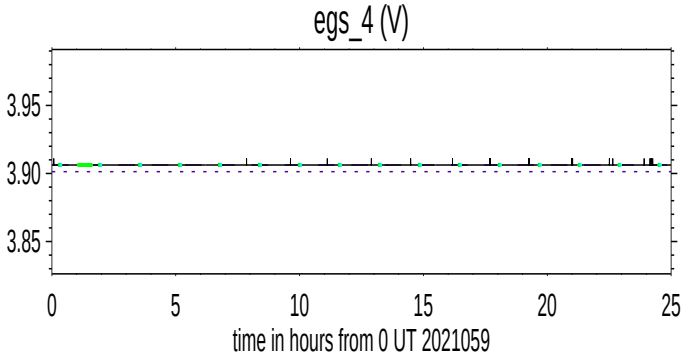
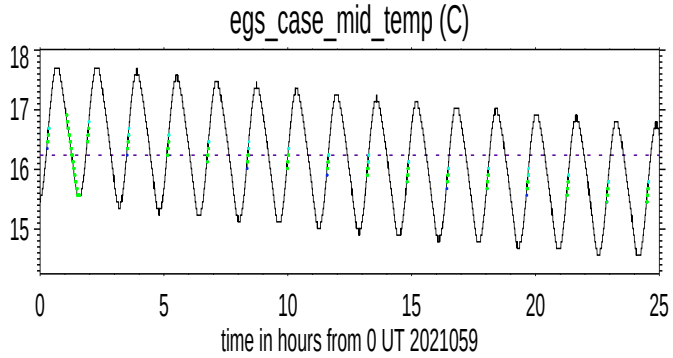
18.0
17.5
17.0
16.5
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_case_mid_temp (C)
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15
0
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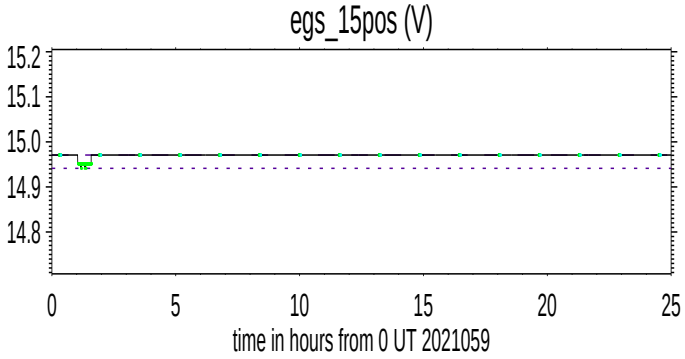
10
15
20
25
time in hours from 0 UT 2021059


egs_15pos (V)
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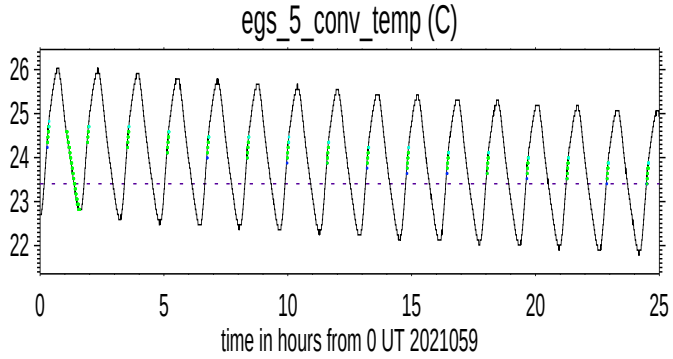
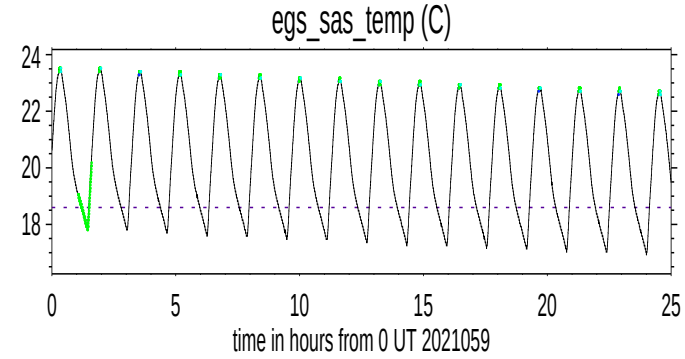
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_5_conv_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021059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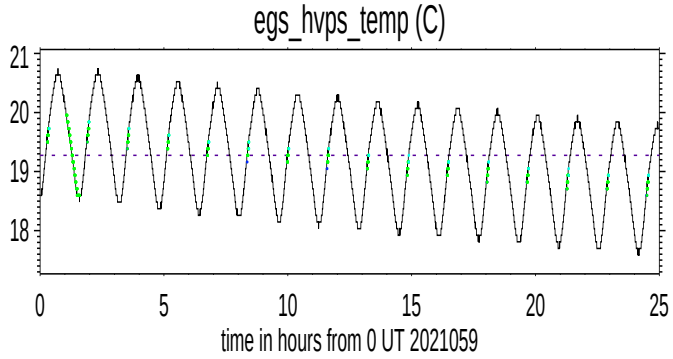
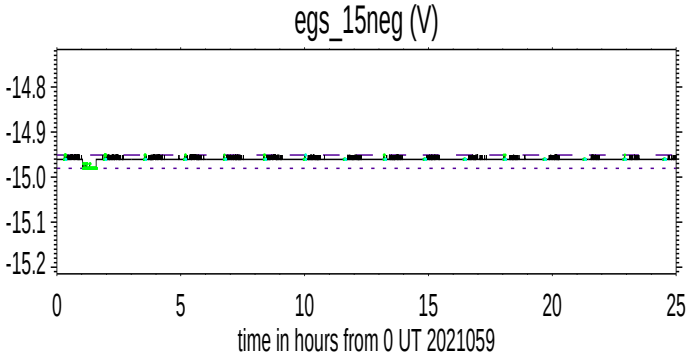
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_hvps_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_15neg (V)
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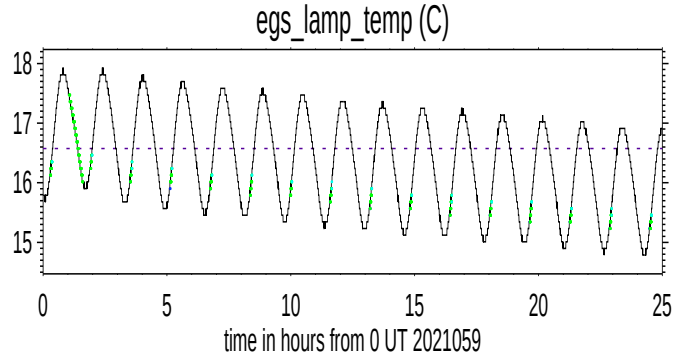
-14.9
-15.0
-15.1
-15.2
0
5
10
15
20
25
time in hours from 0 UT 2021059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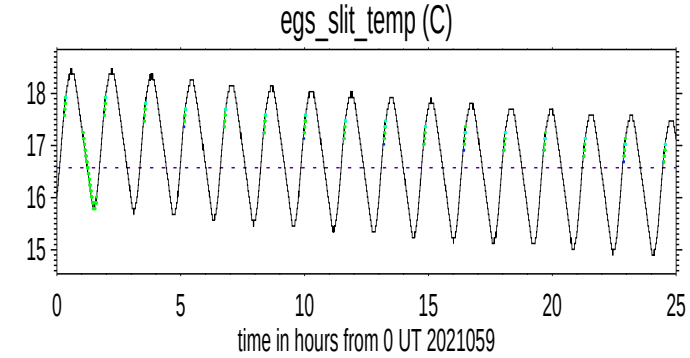
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_slit_temp (C)
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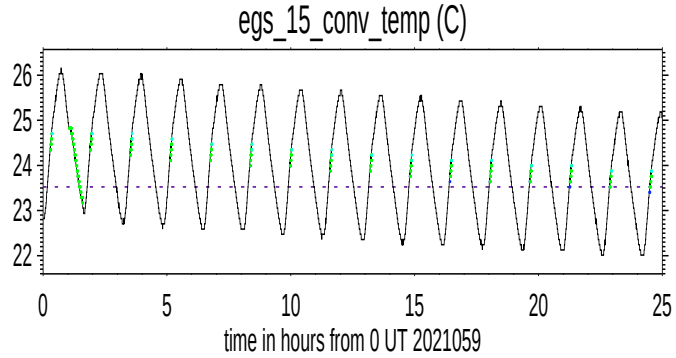
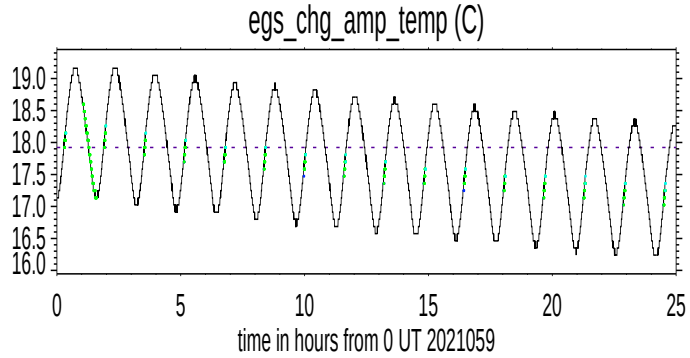
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_15_conv_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_chg_amp_temp (C)
19.0
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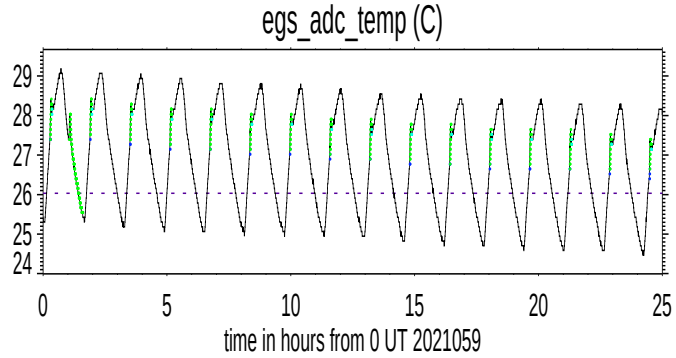
18.0
17.5
17.0
16.5
16.0
0
5
10
15
20
25
time in hours from 0 UT 2021059


egs_adc_temp (C)
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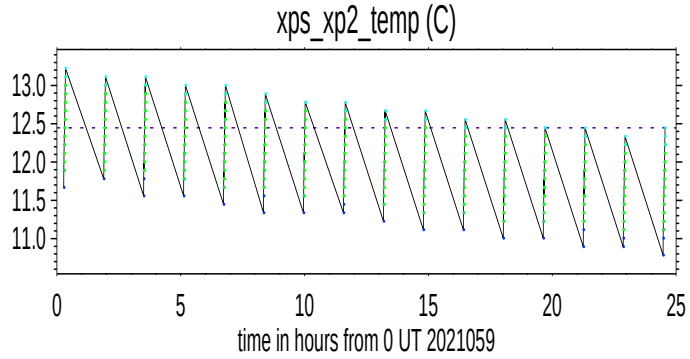
28
27
26
25
24
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_xp2_temp (C)
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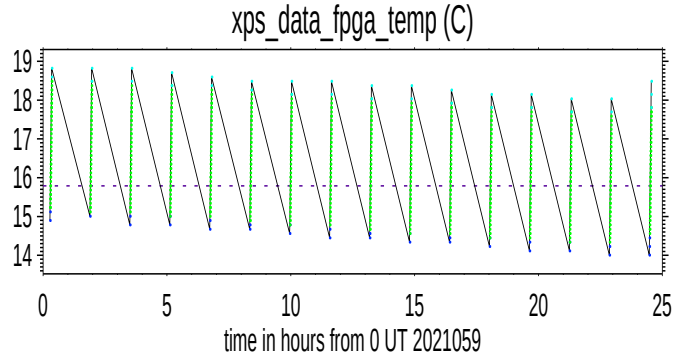
12.0
11.5
11.0
0
5
10
15
20
25
time in hours from 0 UT 2021059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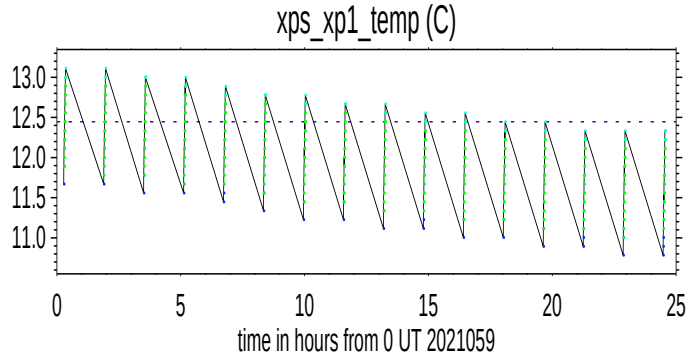
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_xp1_temp (C)
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12.0
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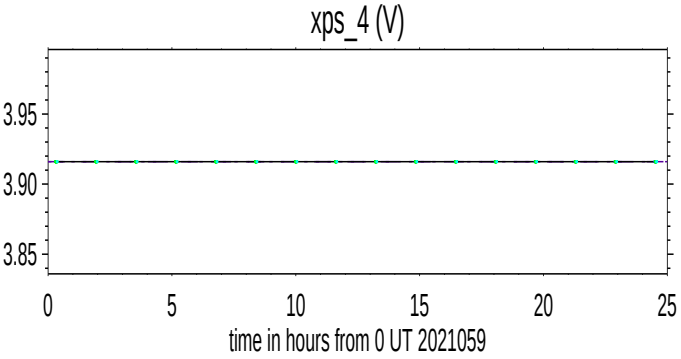
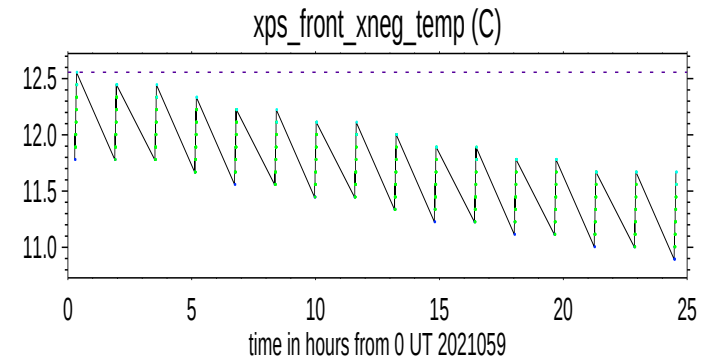
10
15
20
25
time in hours from 0 UT 2021059


xps_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_front_xneg_temp (C)
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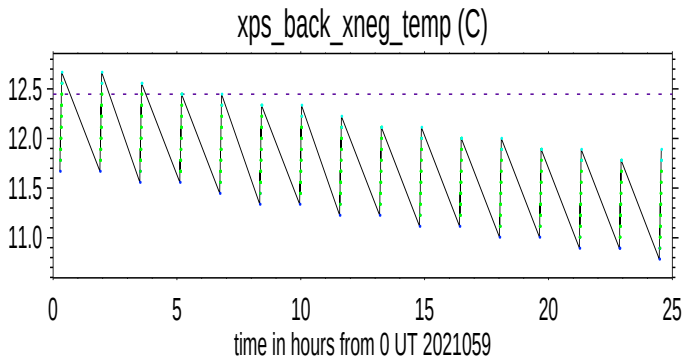
11.5
11.0
0
5
10
15
20
25
time in hours from 0 UT 2021059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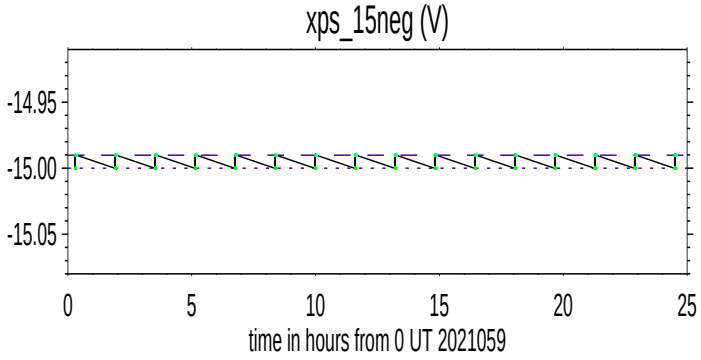
12.5
12.0
11.5
11.0
0
5
10
15
20
25
time in hours from 0 UT 2021059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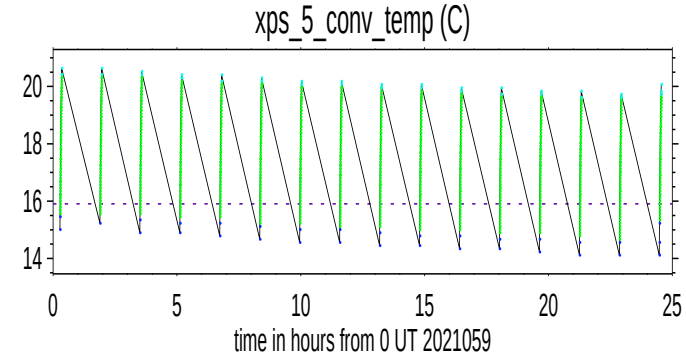
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_5_conv_temp (C)
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18
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0
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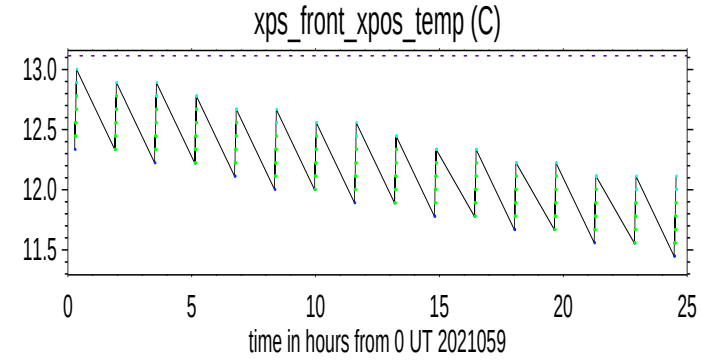
10
15
20
25
time in hours from 0 UT 2021059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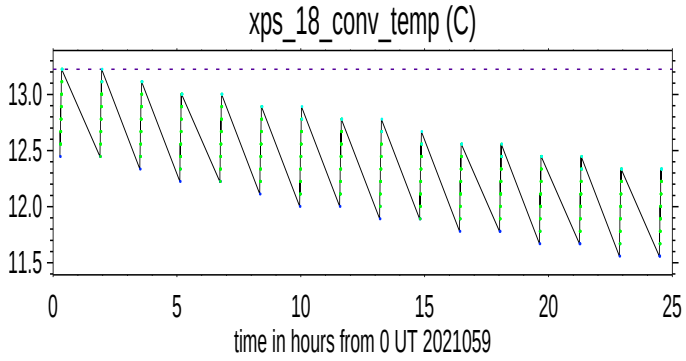
12.0
11.5
0
5
10
15
20
25
time in hours from 0 UT 2021059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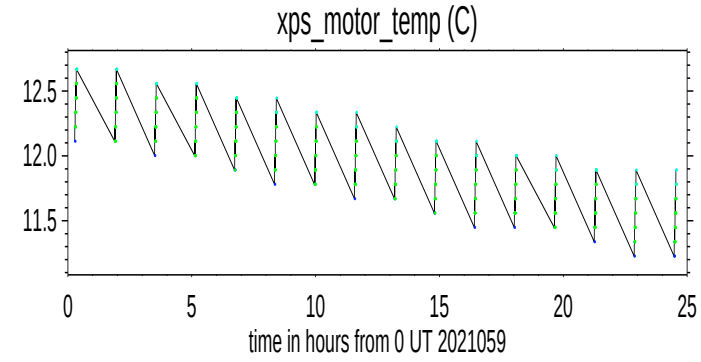
20
25
time in hours from 0 UT 2021059


xps_motor_temp (C)
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10
15
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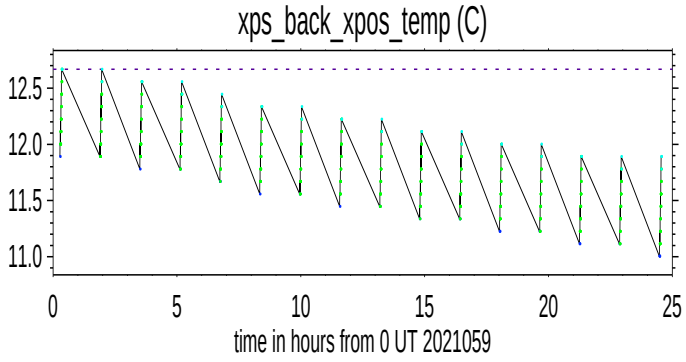
25
time in hours from 0 UT 2021059


xps_back_xpos_temp (C)
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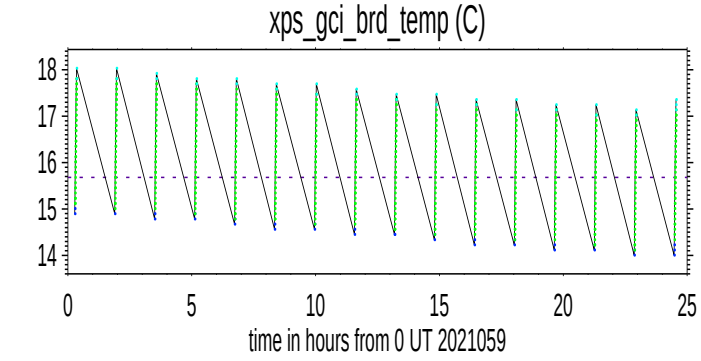
12.0
11.5
11.0
0
5
10
15
20
25
time in hours from 0 UT 2021059


xps_gci_brd_temp (C)
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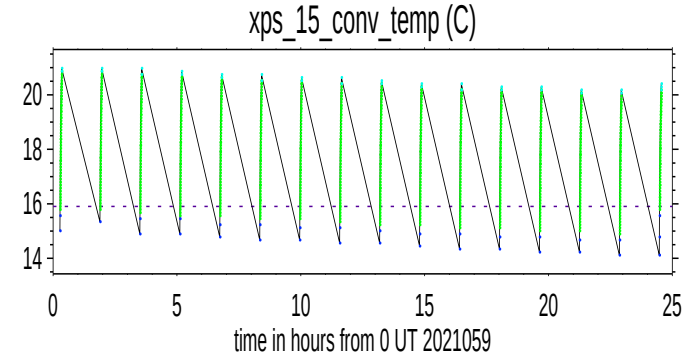
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059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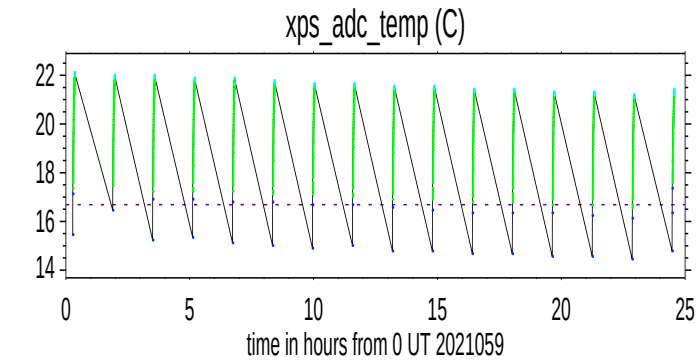
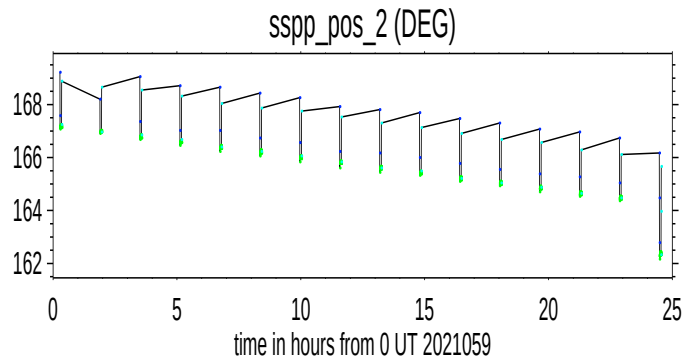
time in hours from 0 UT 2021059


xps_adc_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021059


sspp_pos_2 (DEG)
168
166
164
162
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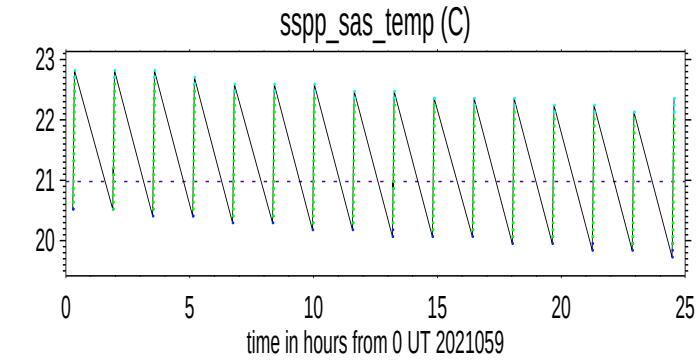
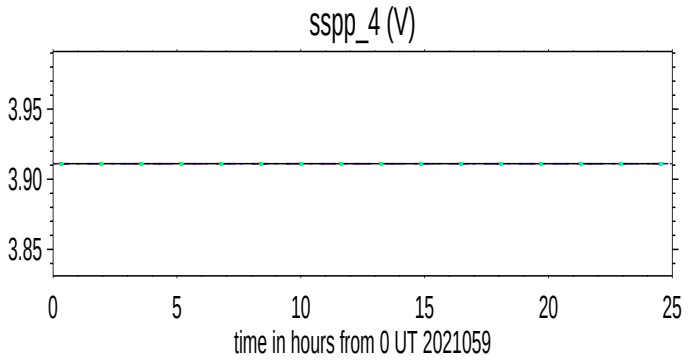
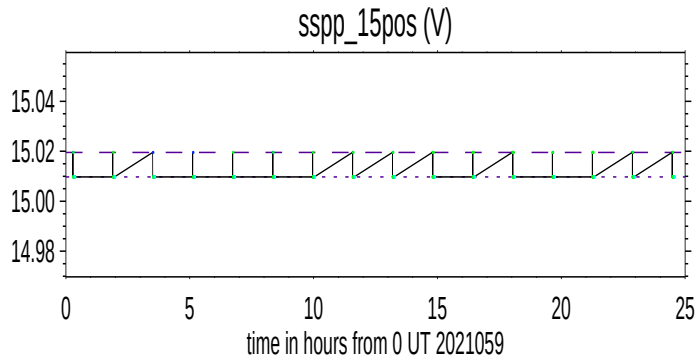
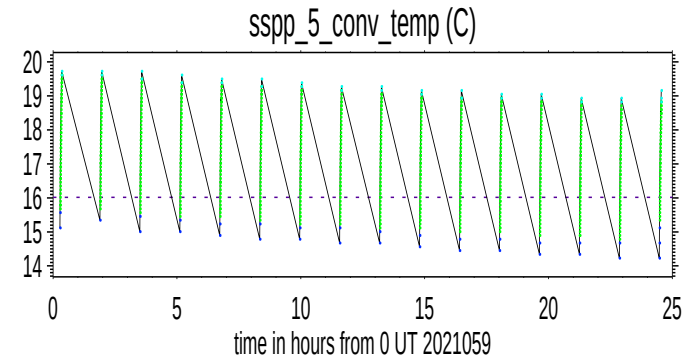
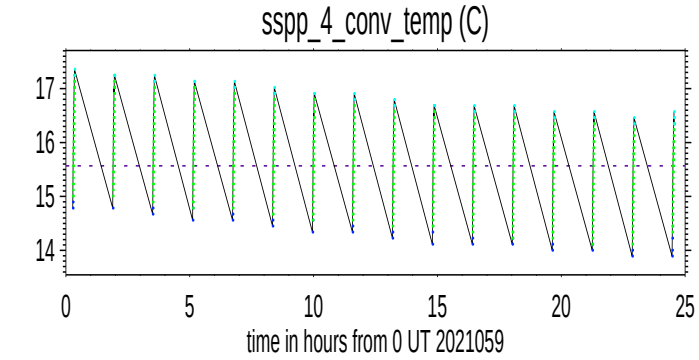
5
10
15
20
25
time in hours from 0 UT 2021059

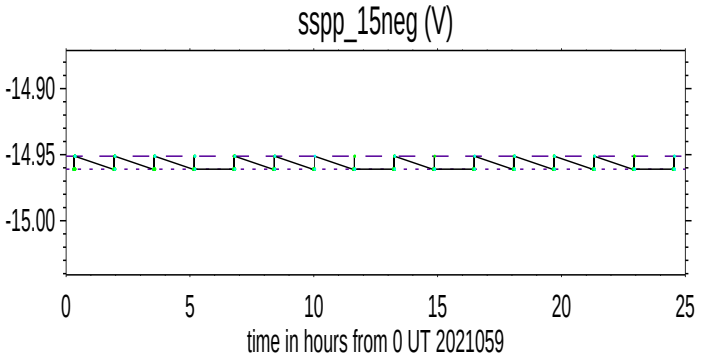

sspp_sas_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021059

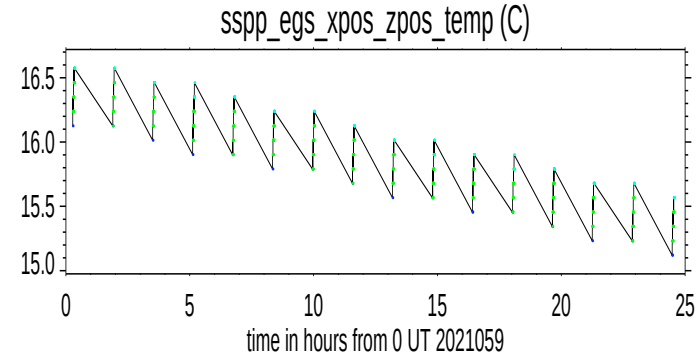

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021059

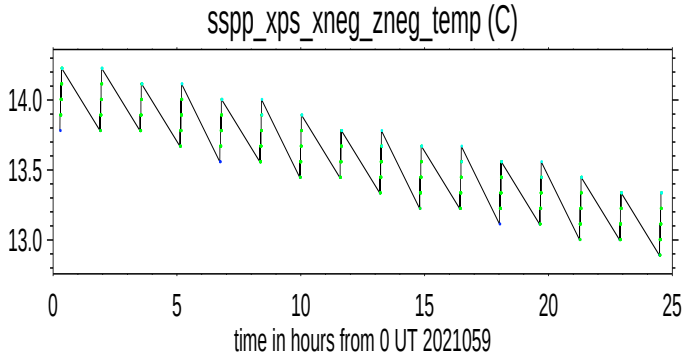

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021059

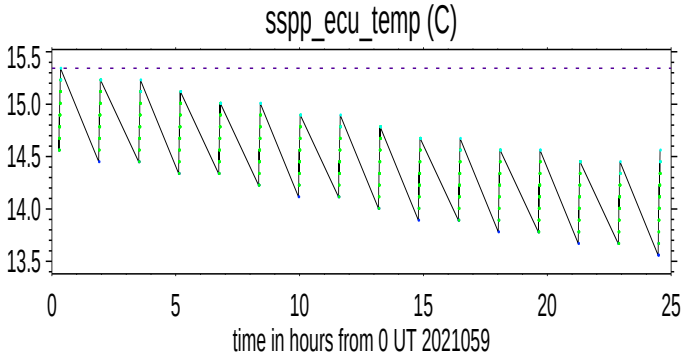

sspp_5_conv_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

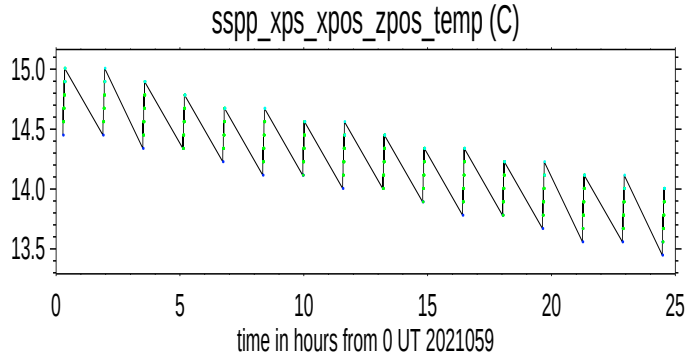

sspp_4_conv_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

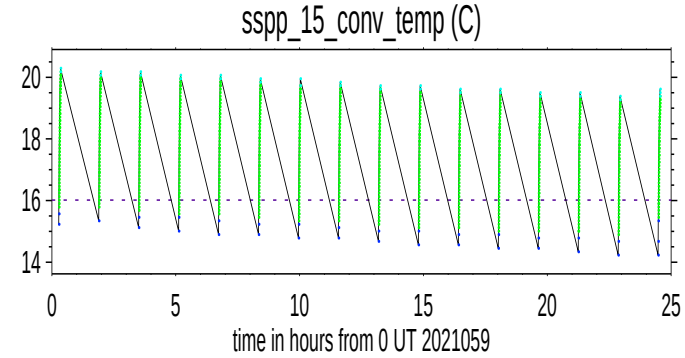

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021059

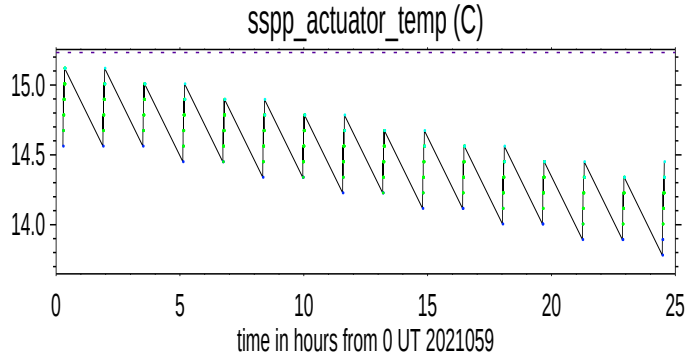

sspp_egs_xpos_zpos_temp (C)
16.5
16.0
15.5
15.0
0
5
10
15
20
25
time in hours from 0 UT 2021059

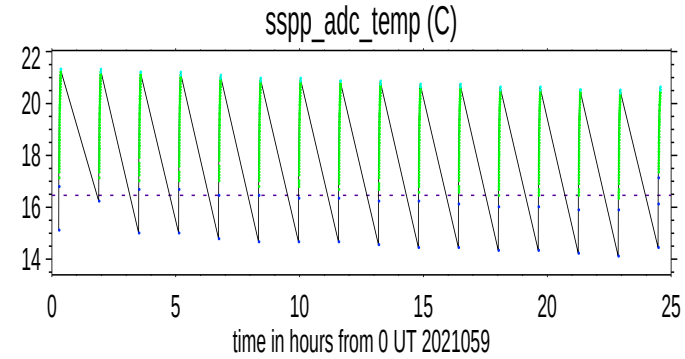

sspp_xps_xneg_zneg_temp (C)
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2021059

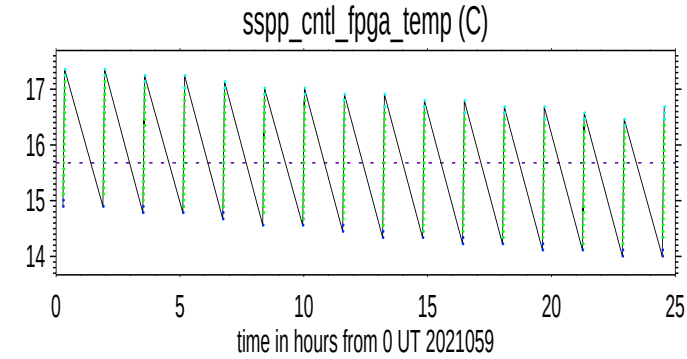

sspp_ecu_temp (C)
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021059

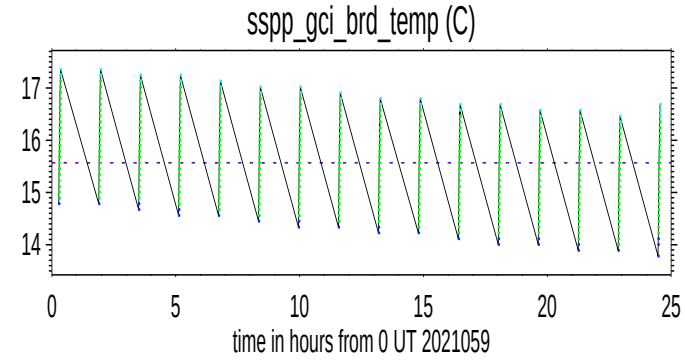

sspp_xps_xpos_zpos_temp (C)
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021059

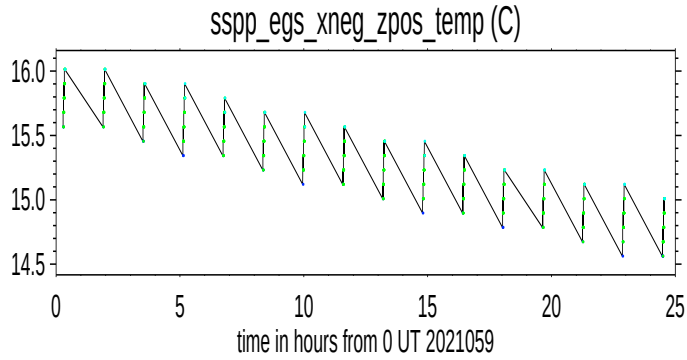

sspp_15_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

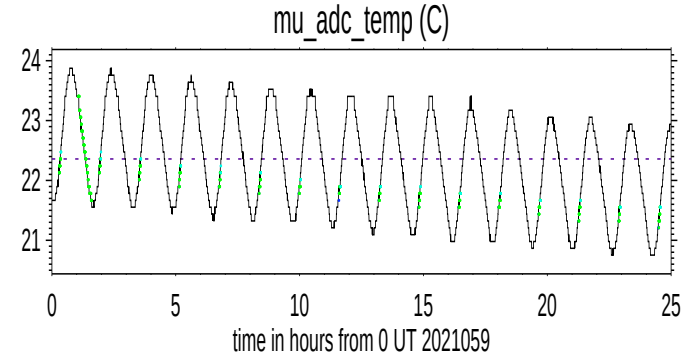

sspp_actuator_temp (C)
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021059

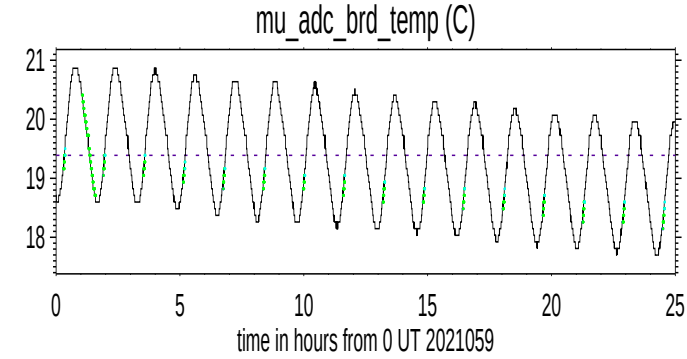

sspp_adc_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

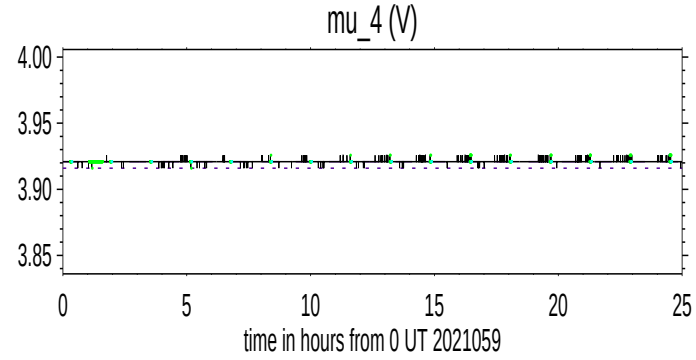

sspp_cntl_fpga_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

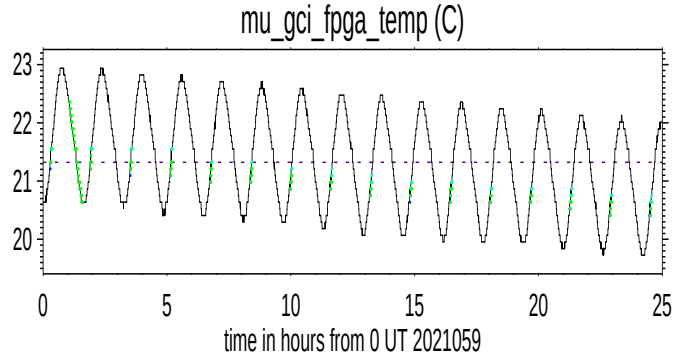

sspp_gci_brd_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021059

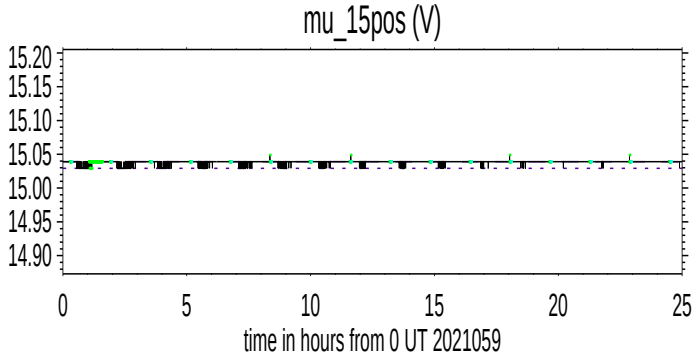

sspp_egs_xneg_zpos_temp (C)
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021059

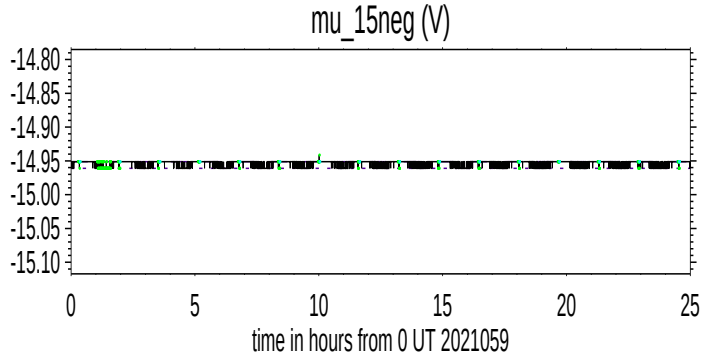

mu_adc_temp (C)
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021059

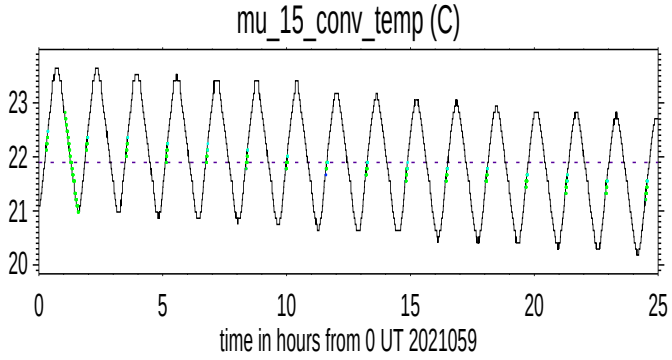

mu_adc_brd_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021059

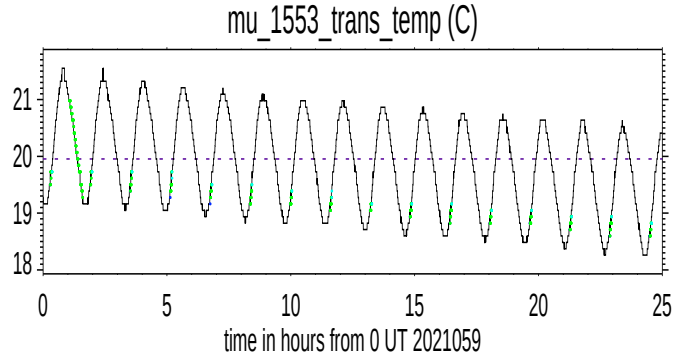

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021059

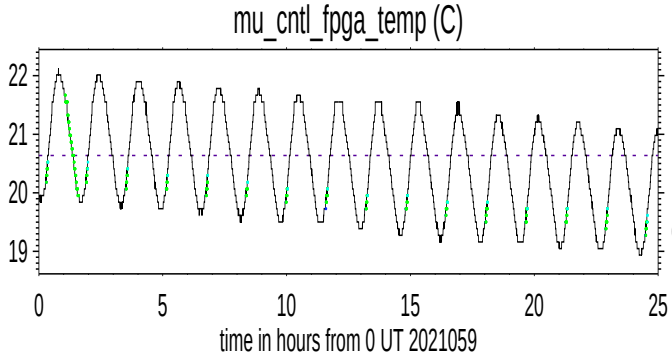

mu_gci_fpga_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021059

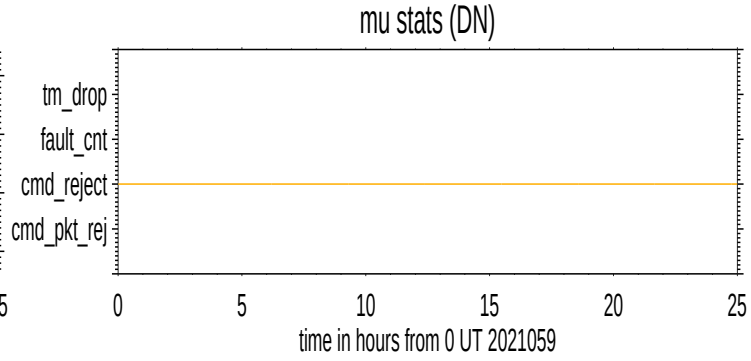

mu_15pos (V)
15.20
15.15
15.10
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2021059

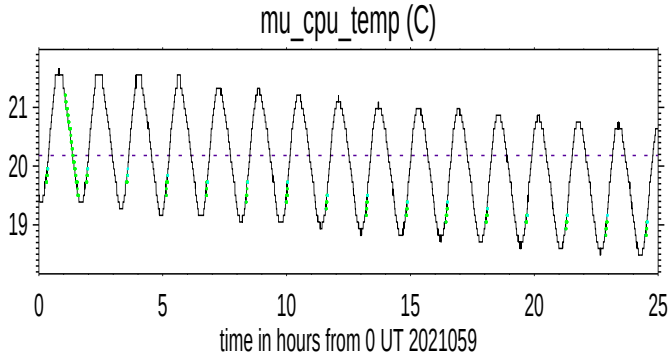

mu_15neg (V)
-14.80
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2021059

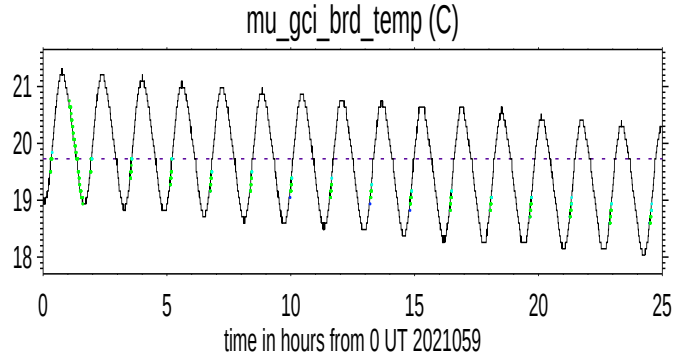

mu_15_conv_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021059

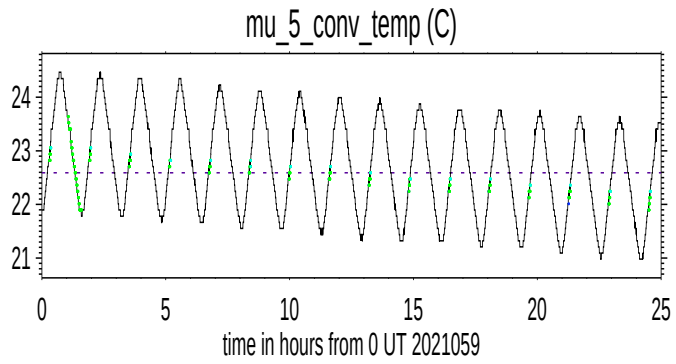

mu_1553_trans_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021059

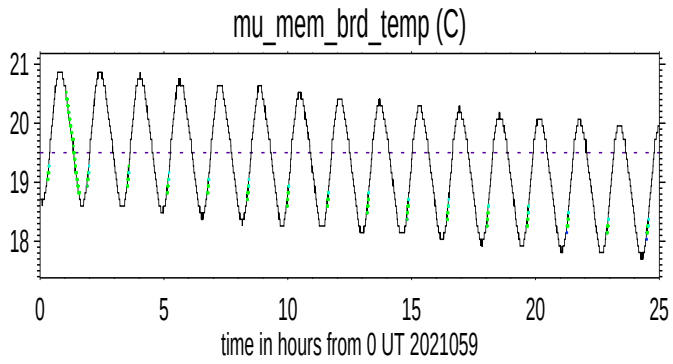

mu_cntl_fpga_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021059

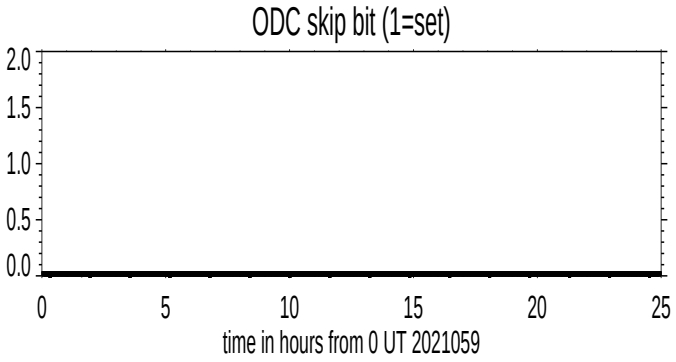

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2021059

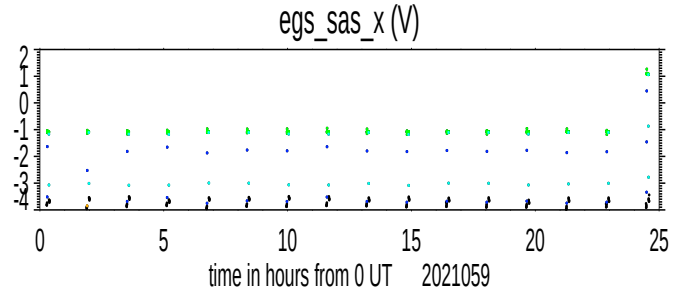

mu_cpu_temp (C)
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021059

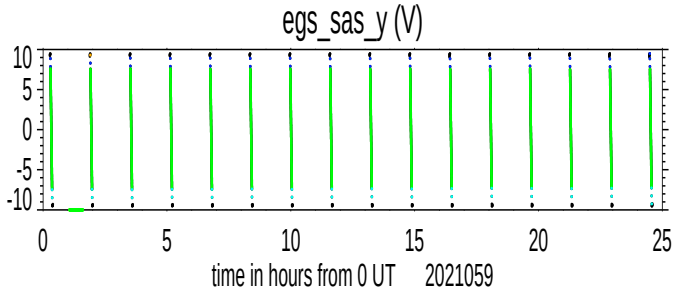

mu_gci_brd_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021059

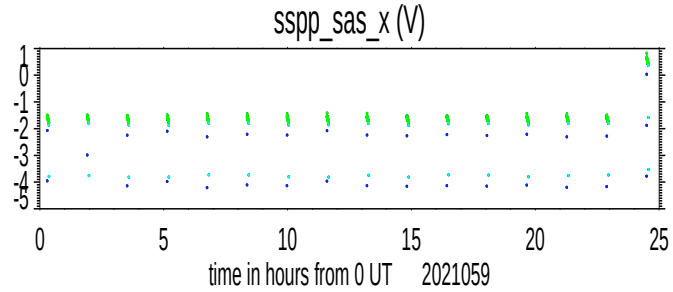

mu_5_conv_temp (C)
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021059

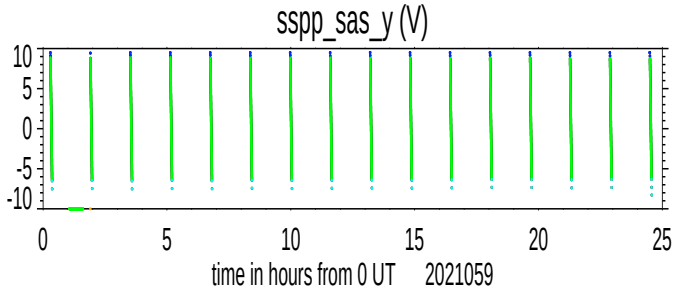

mu_mem_brd_temp (C)
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021059

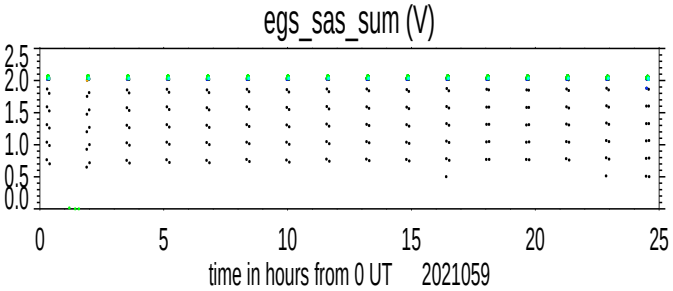

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021059

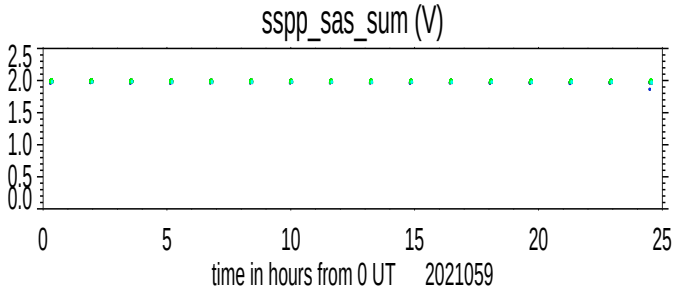

egs_sas_x (V)
time in hours from 0 UT 2021059

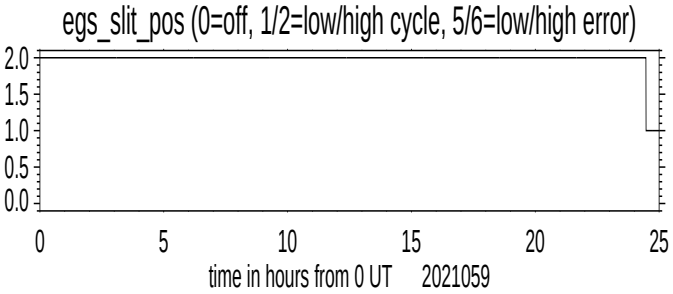

egs_sas_y (V)
time in hours from 0 UT 2021059

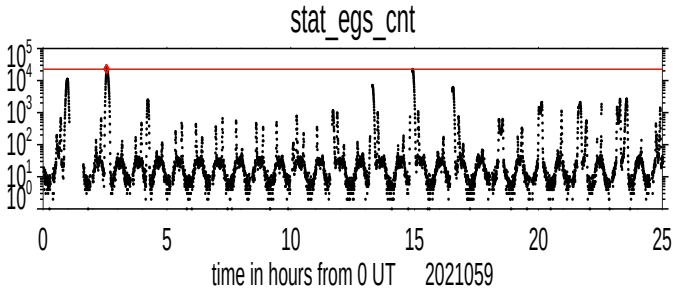

sspp_sas_x (V)
time in hours from 0 UT 2021059

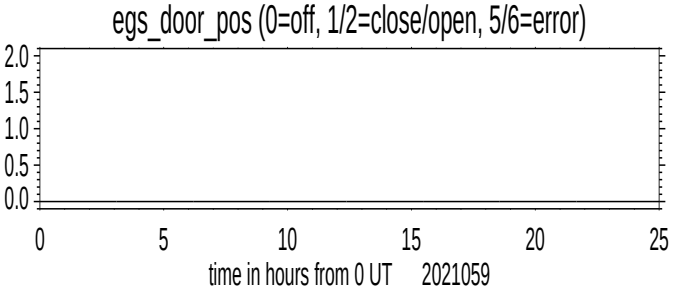

sspp_sas_y (V)
time in hours from 0 UT 2021059

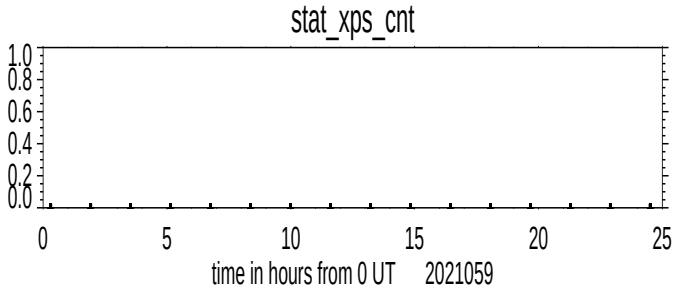

egs_sas_sum (V)
time in hours from 0 UT 2021059

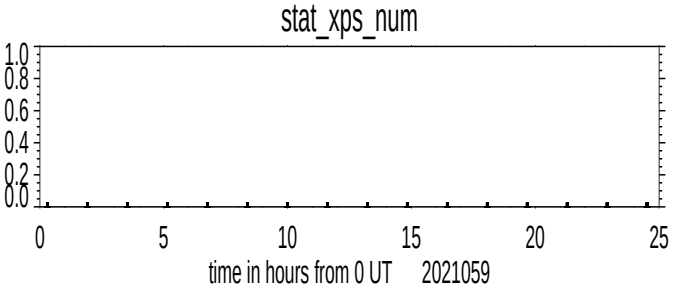

sspp_sas_sum (V)
time in hours from 0 UT 2021059

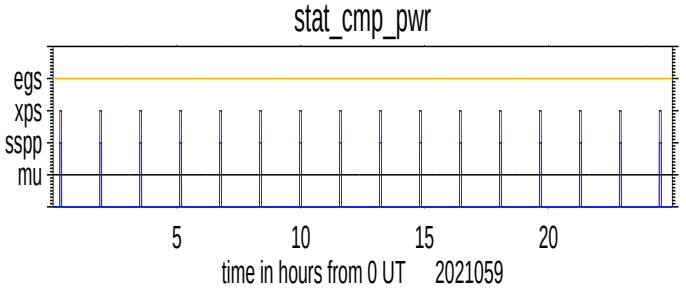

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021059


stat_egs_cnt
time in hours from 0 UT 2021059

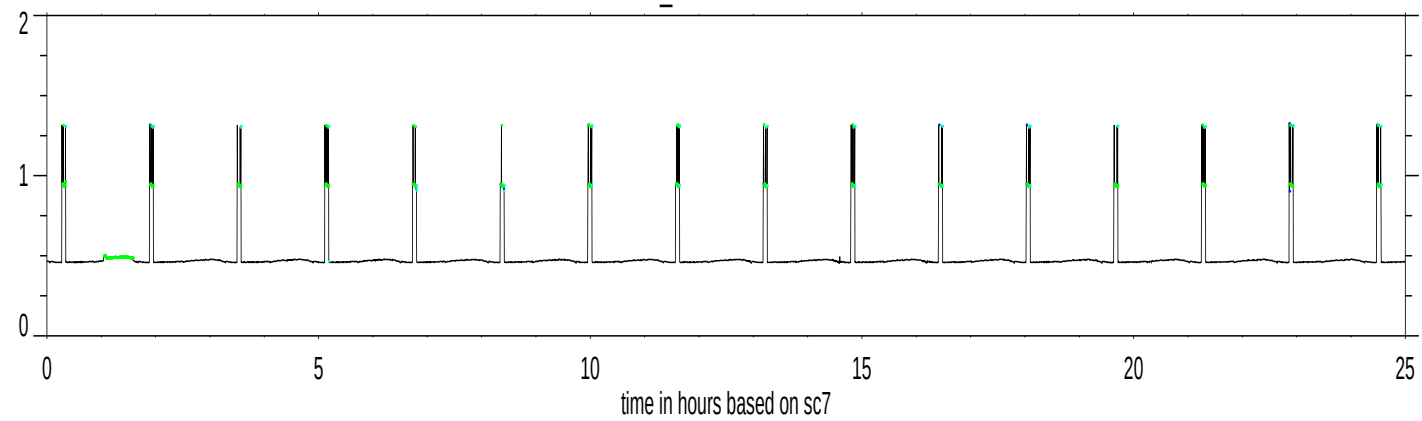

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021059


stat_xps_cnt
time in hours from 0 UT 2021059

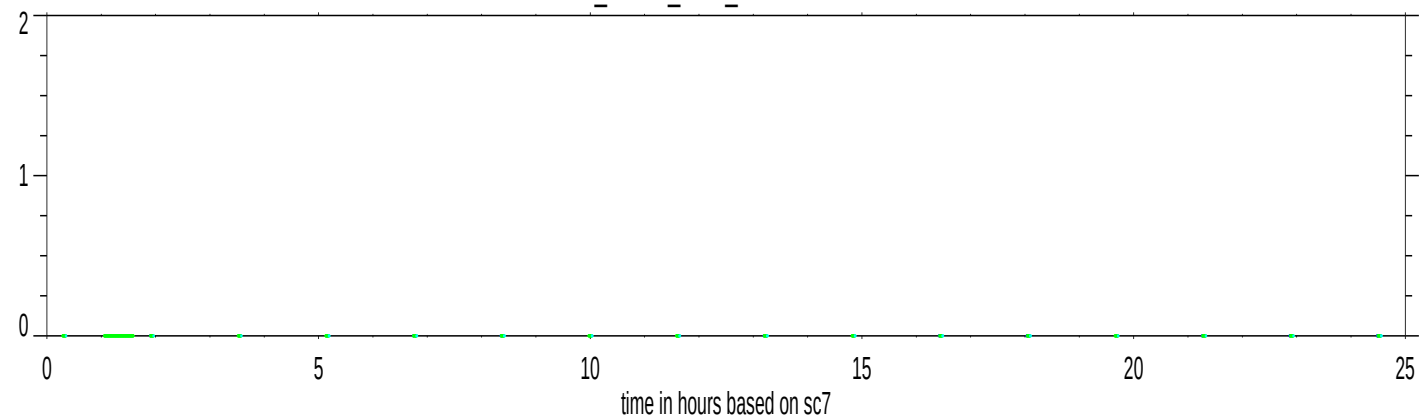

stat_xps_num
time in hours from 0 UT 2021059


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021059

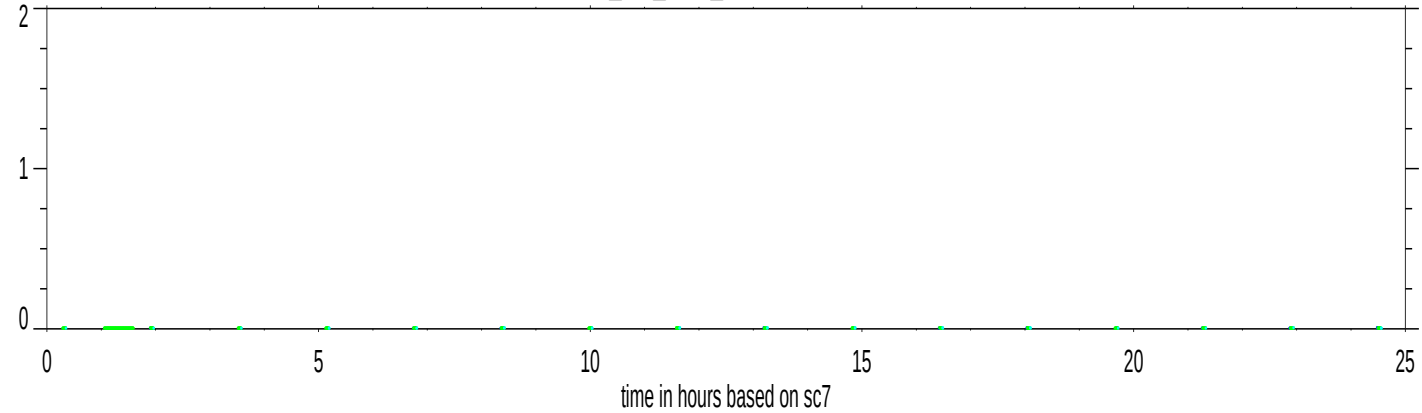
SEE_CUR 2021059



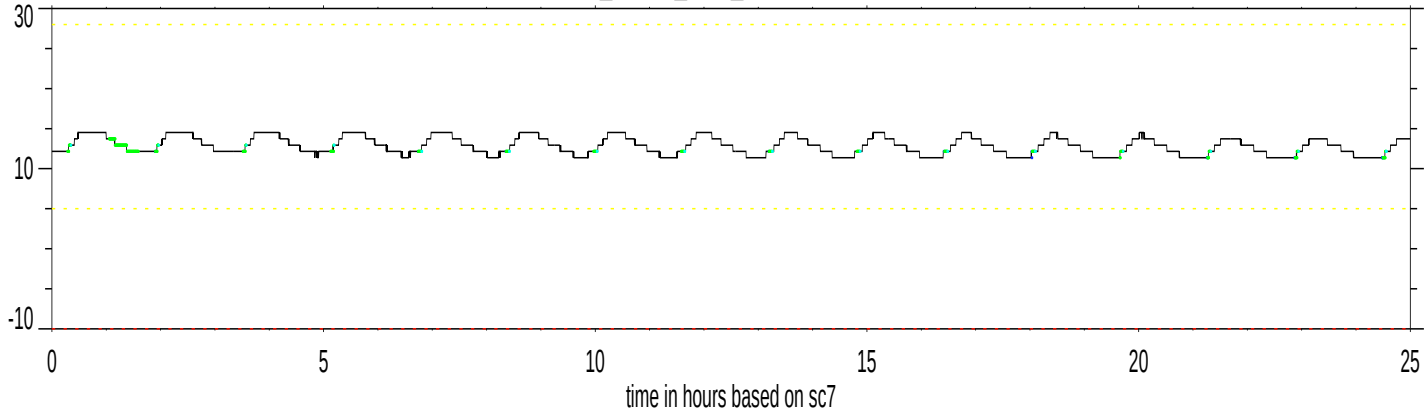
SEE_SURV_HTR_CUR 2021059



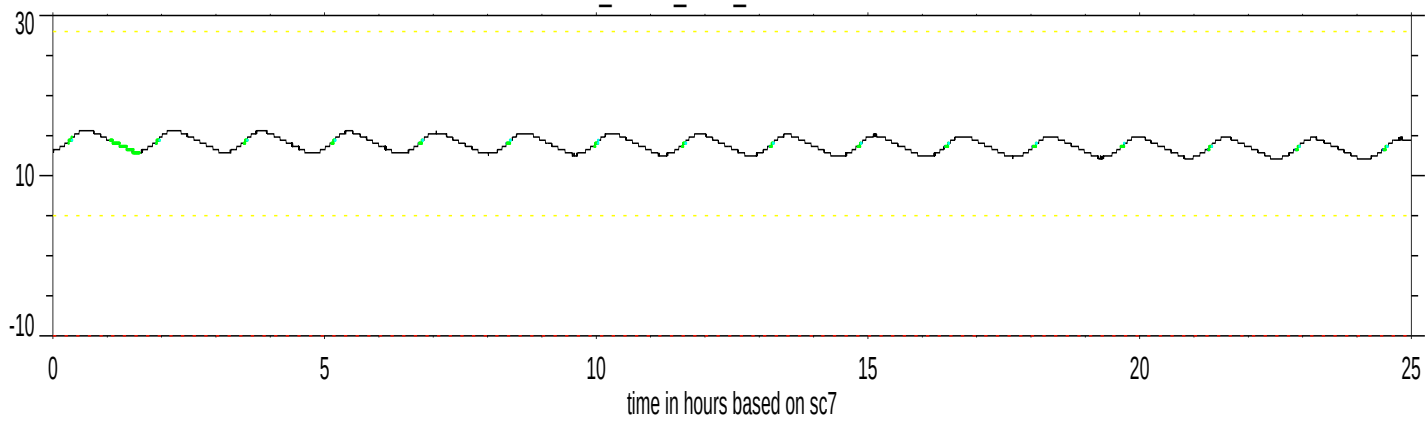
SEE_OP_HTR_CUR 2021059



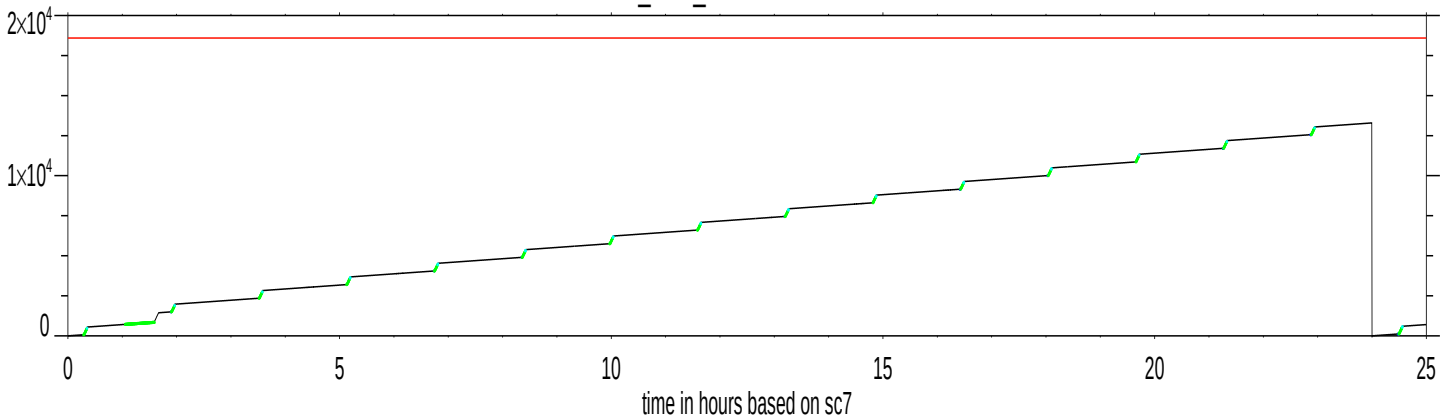
SSPP_BHND_XPS_TEMP 2021059



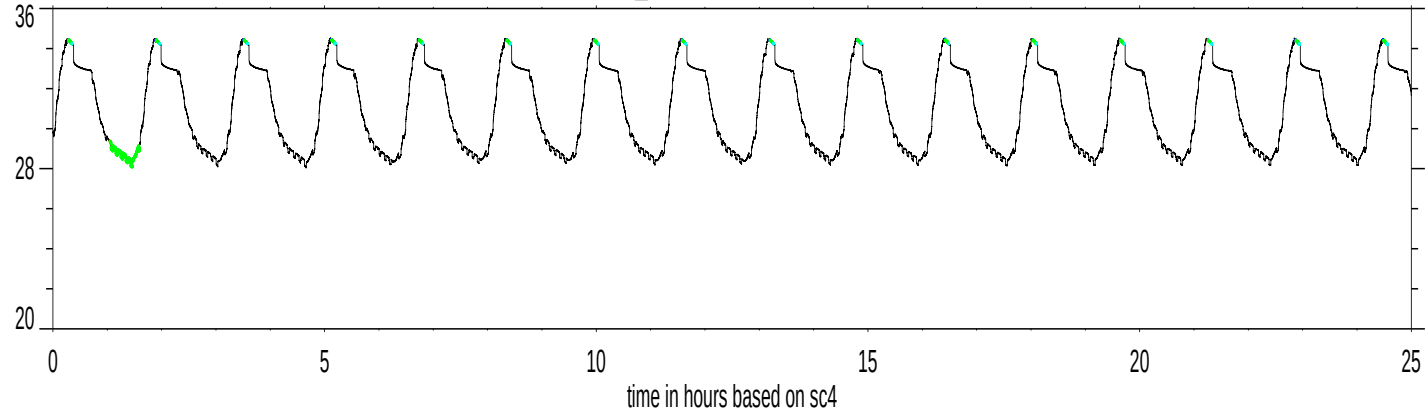
SSPP_BHND_MTR_TEMP 2021059



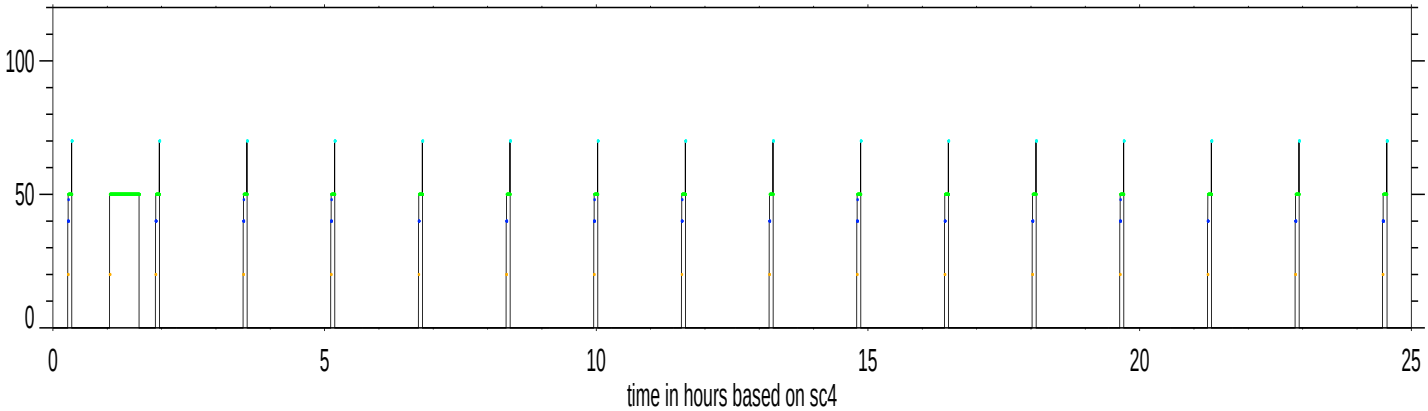
SEE_PKT_COUNT 2021059

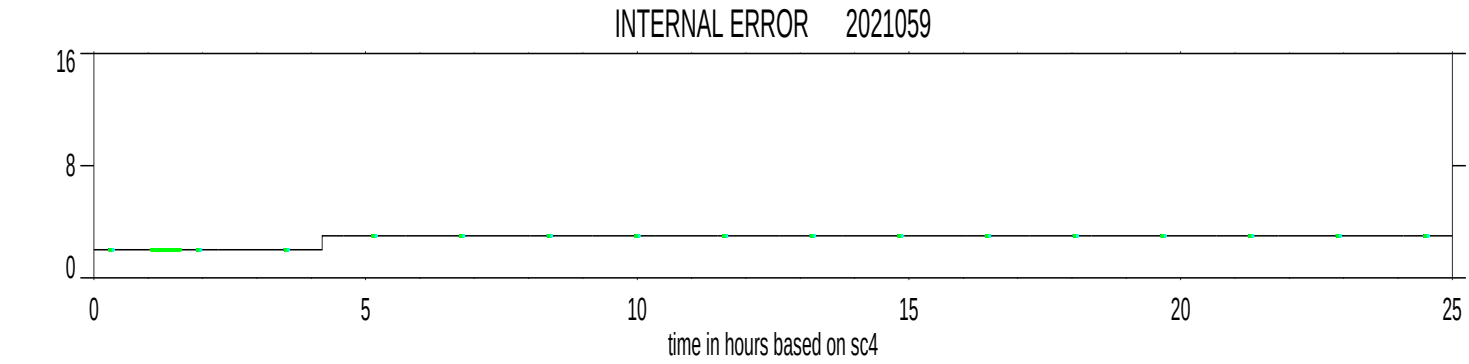


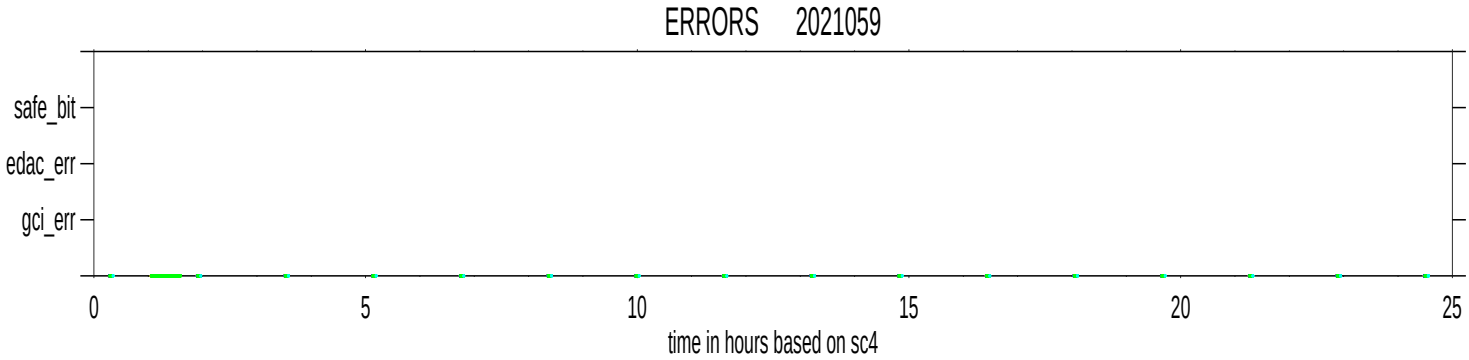
BUS_VOLTAGE 2021059

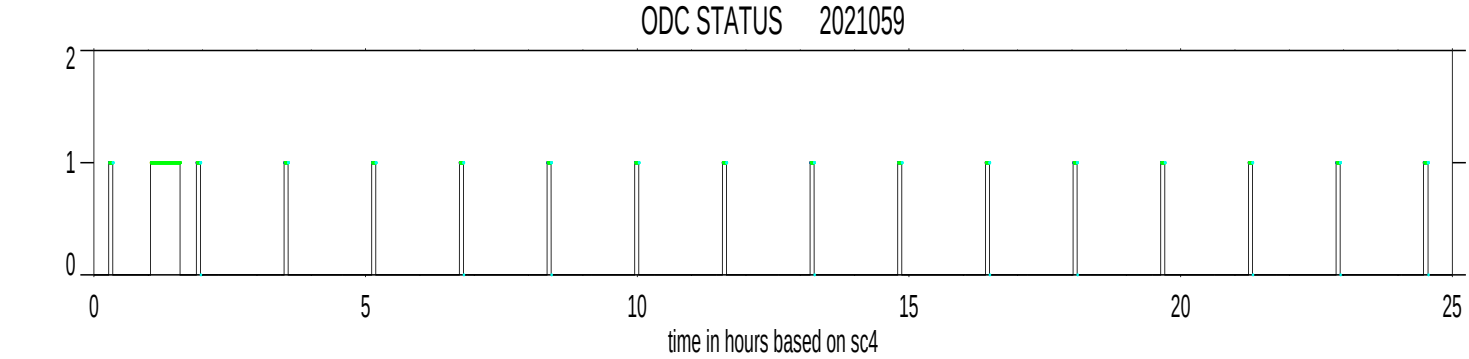


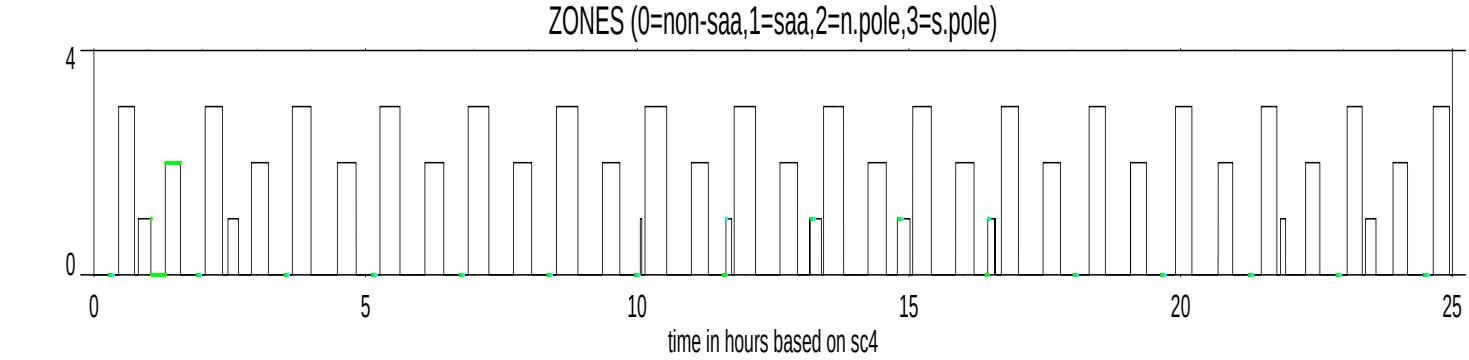
SEE_MU Operational Mode 2021059

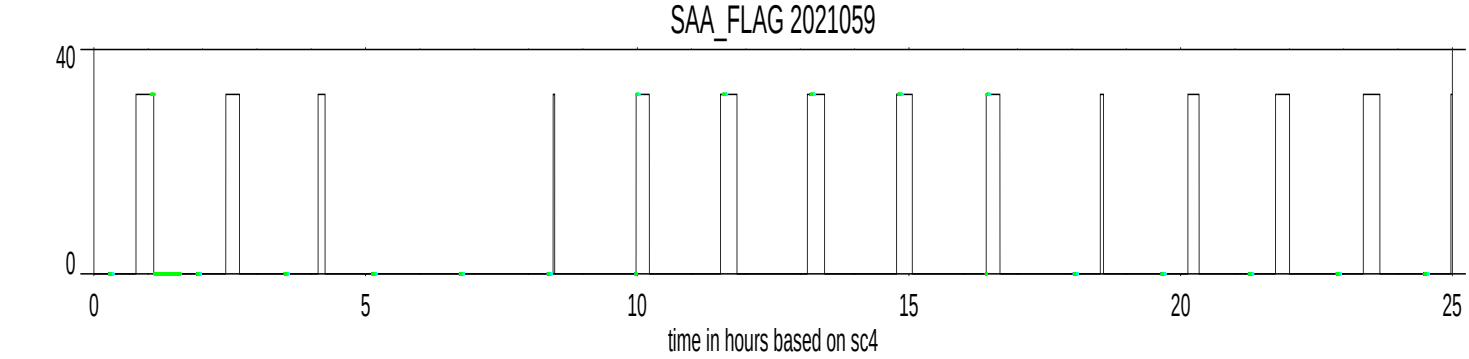


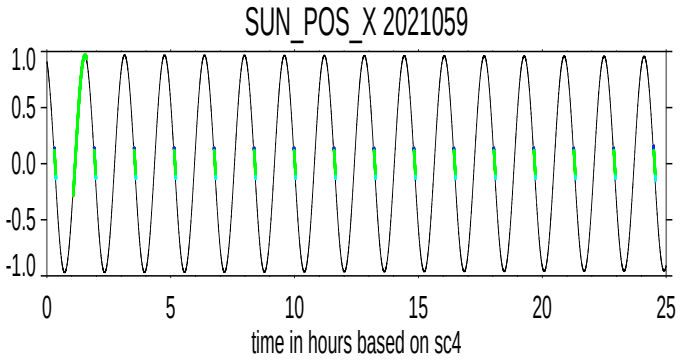

INTERNAL ERROR 2021059
16
8
0
0
5
10
15
20
25
time in hours based on sc4

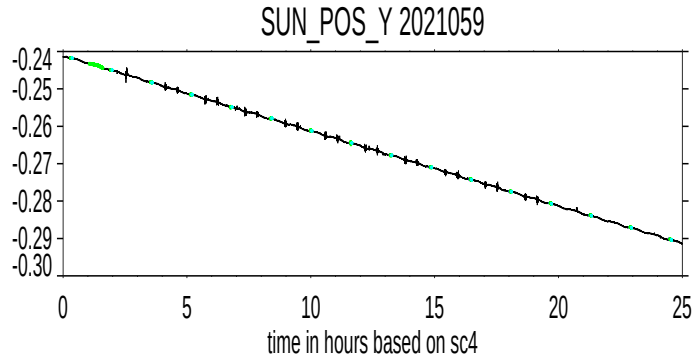

ERRORS 2021059
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

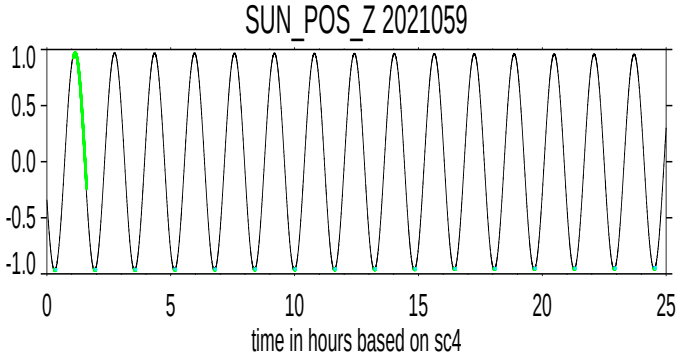

ODC STATUS 2021059
2
1
0
0
5
10
15
20
25
time in hours based on sc4

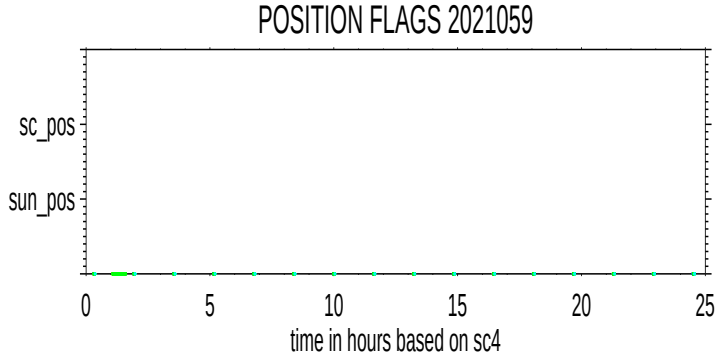

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

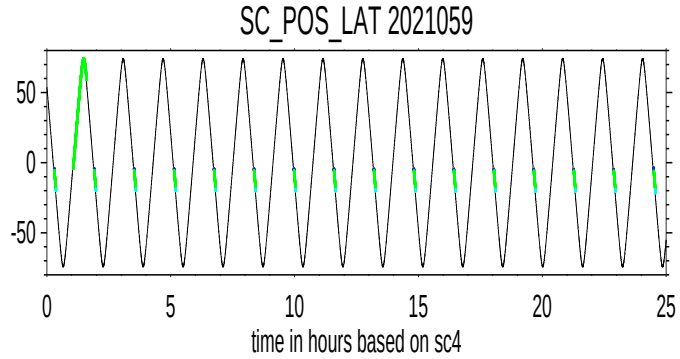

SAA_FLAG 2021059
40
0
0
5
10
15
20
25
time in hours based on sc4

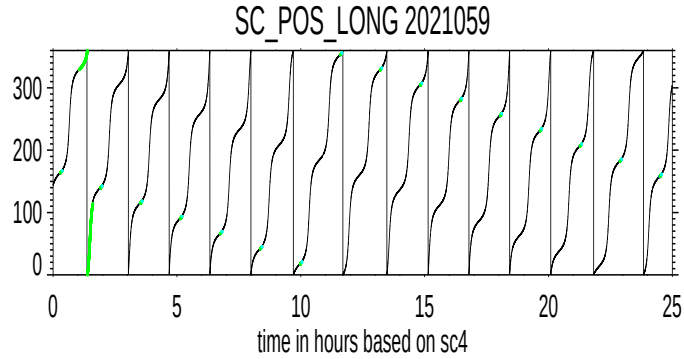

SUN_POS_X 2021059
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

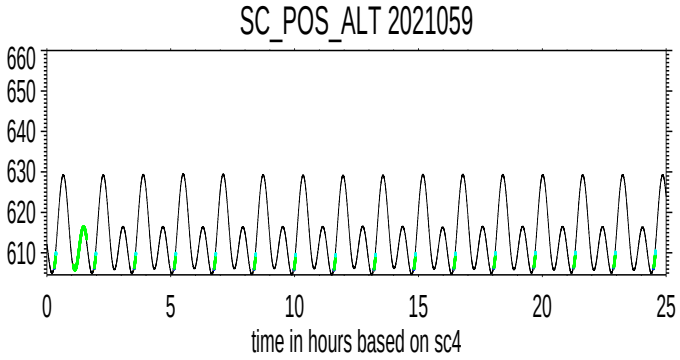

SUN_POS_Y 2021059
-0.24
-0.25
-0.26
-0.27
-0.28
-0.29
-0.30
0
5
10
15
20
25
time in hours based on sc4

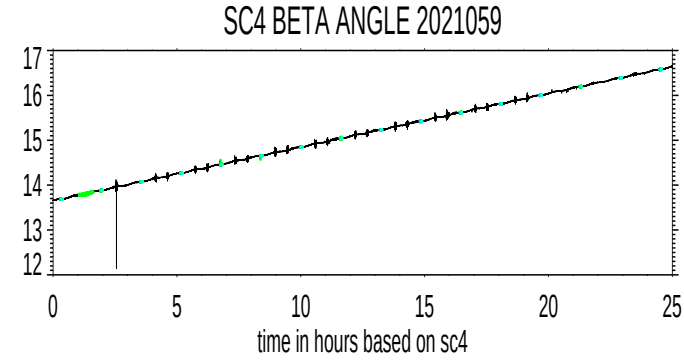

SUN_POS_Z 2021059
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021059
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021059
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021059
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021059
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021059
17
16
15
14
13
12
0
5
10
15
20
25
time in hours based on sc4