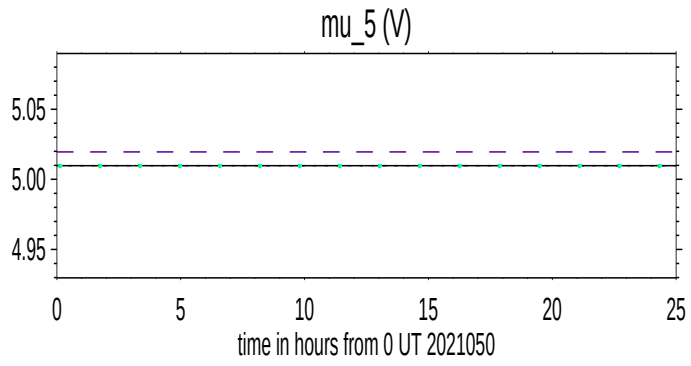
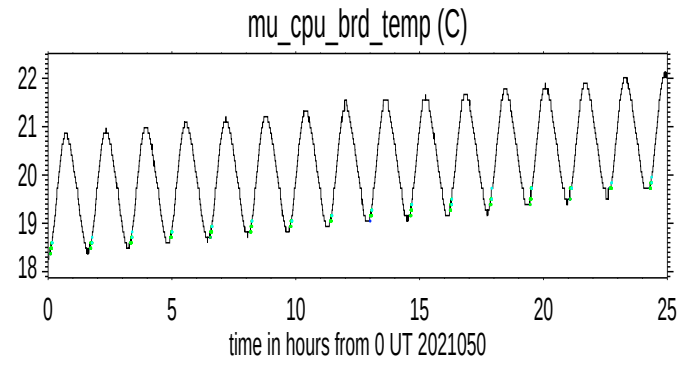
```
Information for      2021050
07:28:30.876: hk: 7 cmd pkt accepted   cmd = ODCs Loaded
07:28:45.876: hk: 8 cmd pkt accepted   cmd = ODCs Loaded
07:29:00.876: hk: 3 cmd pkt accepted   cmd = ODCs Loaded
```

/export/timed/data/science_dp/tlm_limit/outoflimit_2021050_012.txt
Sun Mar 21 06:14:12 2021 1

RH OutOfLimit 1297728017 1297818010 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 2021050


mu_cpu_brd_temp (C)
22
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15
20
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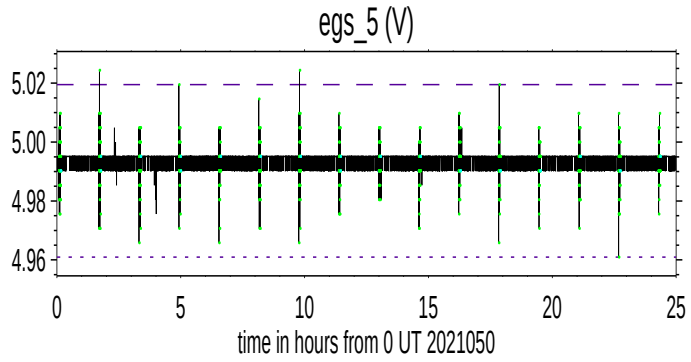
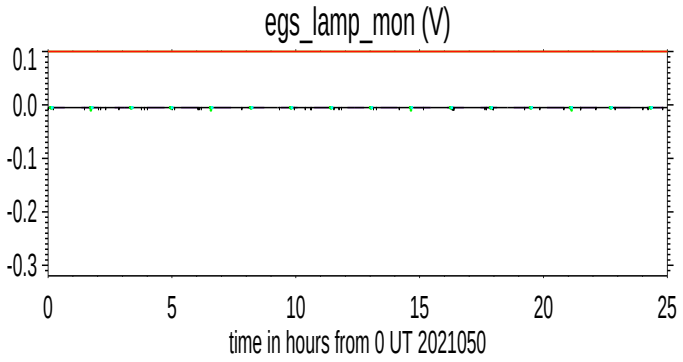
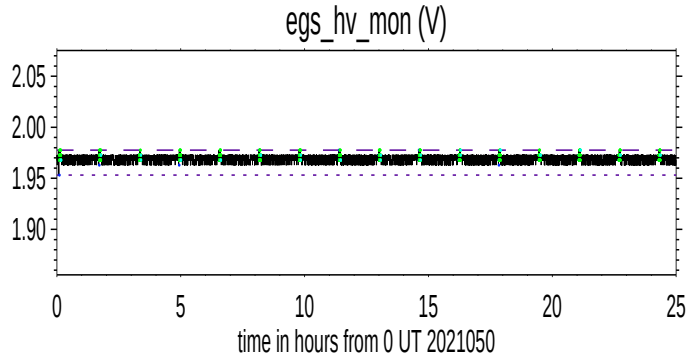
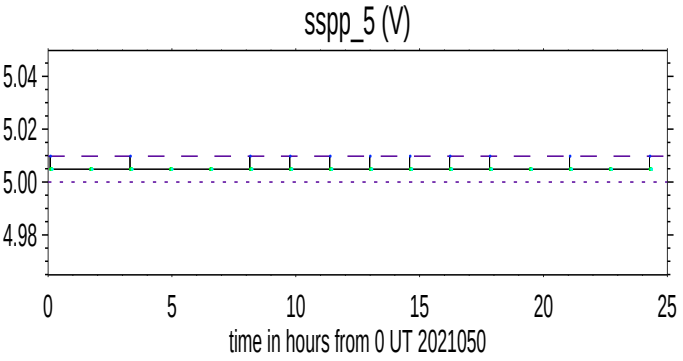
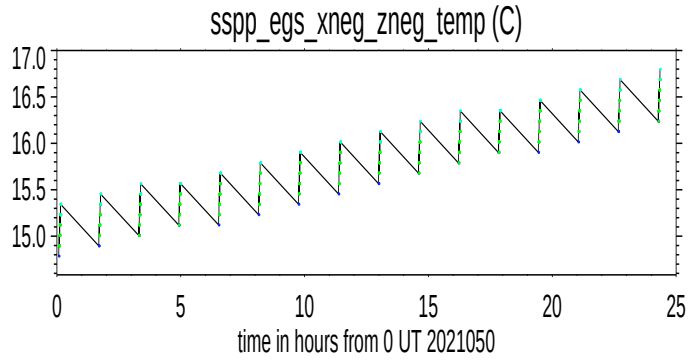
time in hours from 0 UT 2021050


egs_5 (V)
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021050


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 2021050


egs_hv_mon (V)
2.05
2.00
1.95
1.90
0
5
10
15
20
25
time in hours from 0 UT 2021050


sspp_5 (V)
5.04
5.02
5.00
4.98
0
5
10
15
20
25
time in hours from 0 UT 2021050


sspp_egs_xneg_zneg_temp (C)
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16.5
16.0
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15.0
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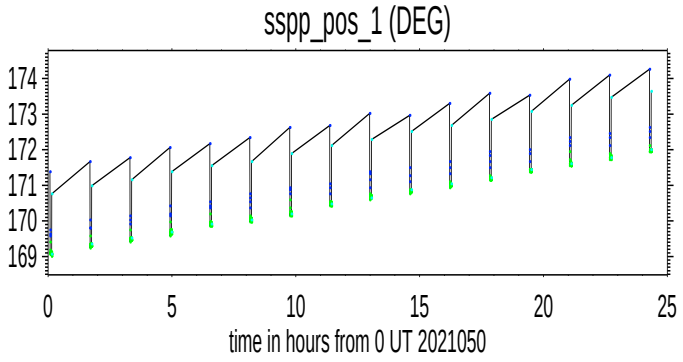
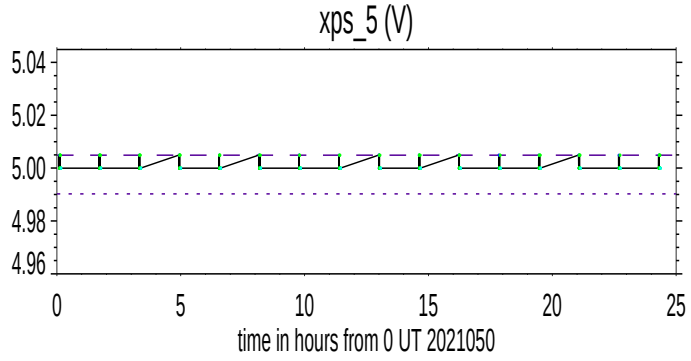
5
10
15
20
25
time in hours from 0 UT 2021050


sspp_pos_1 (DEG)
174
173
172
171
170
169
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_5 (V)
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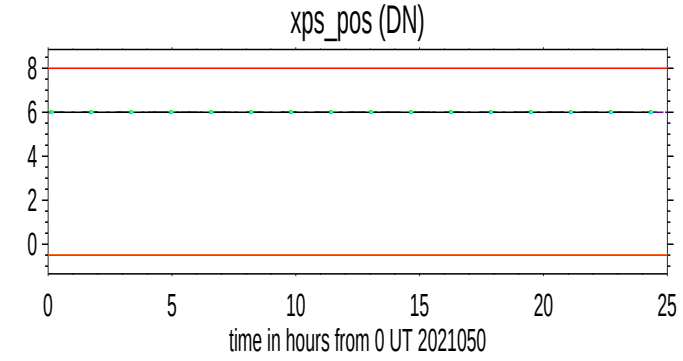
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_pos (DN)
8
6
4
2
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10
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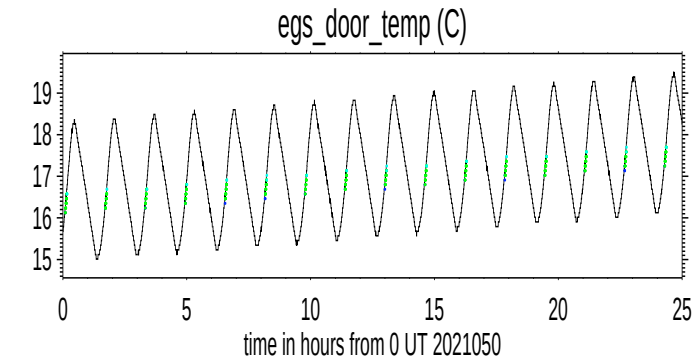
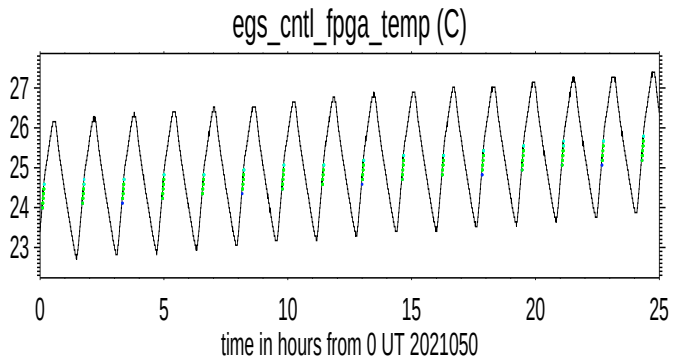
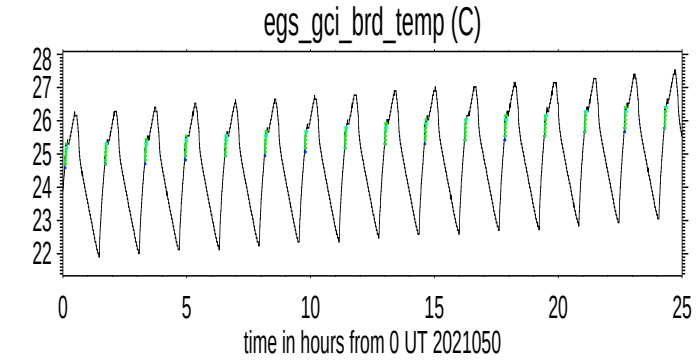
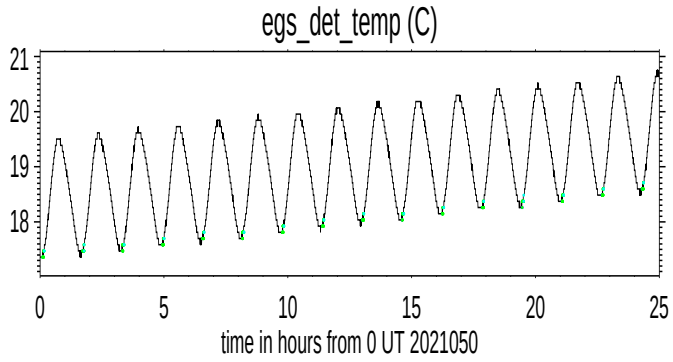
time in hours from 0 UT 2021050


egs_door_temp (C)
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_cntl_fpga_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_gci_brd_temp (C)
28
27
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021050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20
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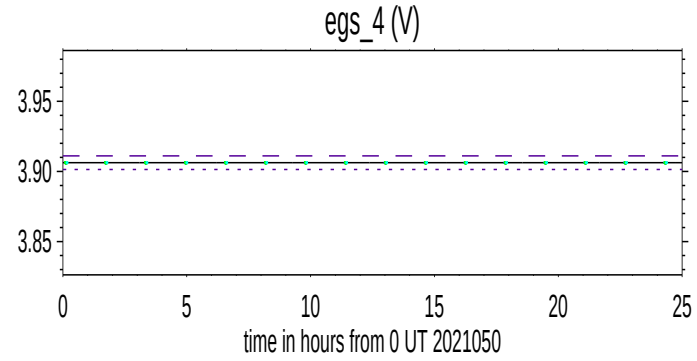
5
10
15
20
25
time in hours from 0 UT 2021050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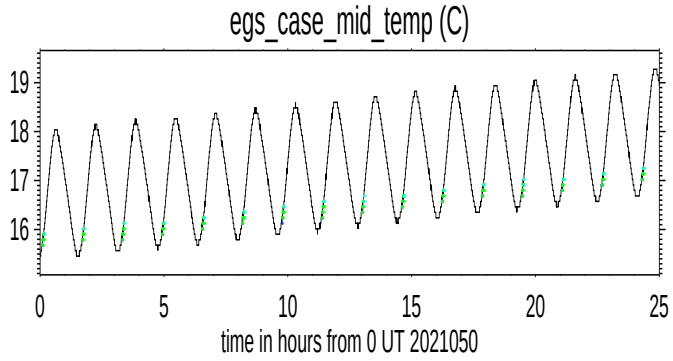
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_case_mid_temp (C)
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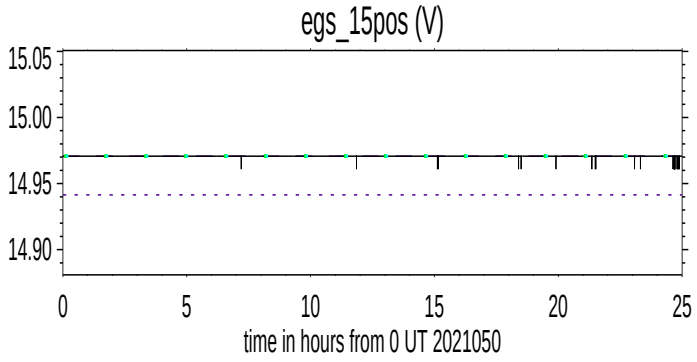
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2021050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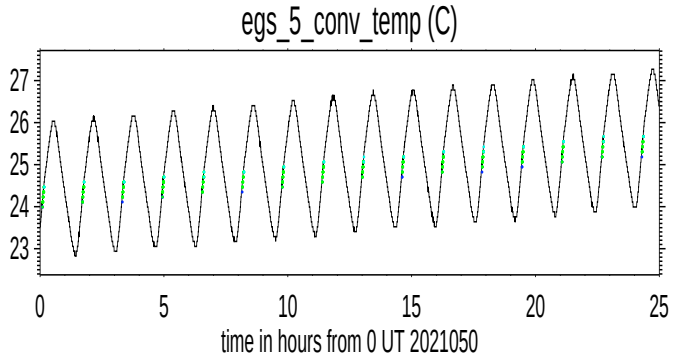
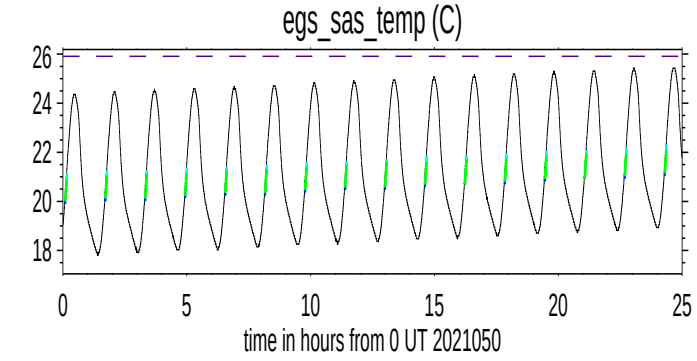
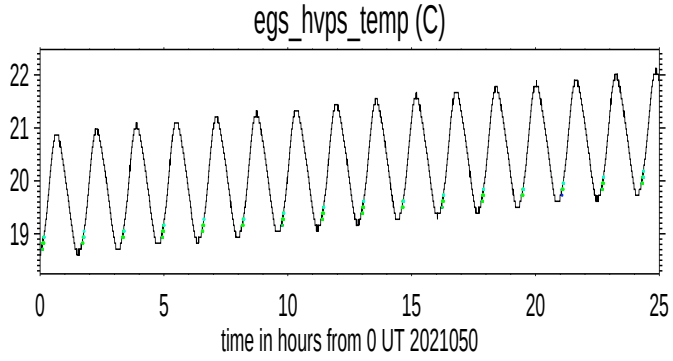
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_5_conv_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_sas_temp (C)
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_hvps_temp (C)
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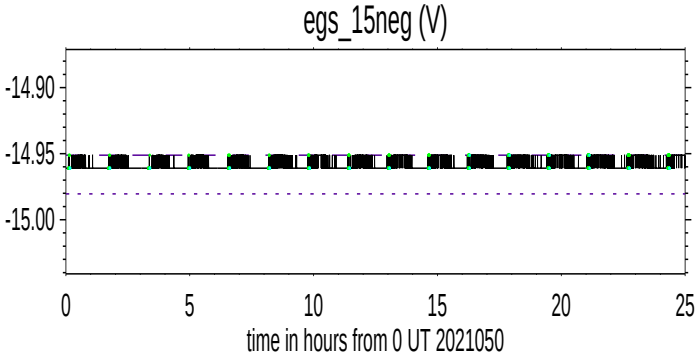
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_15neg (V)
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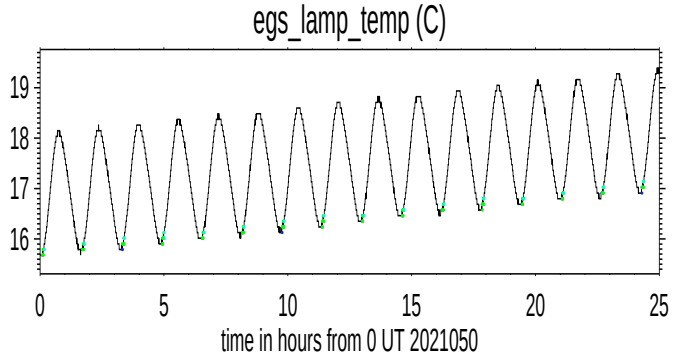
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021050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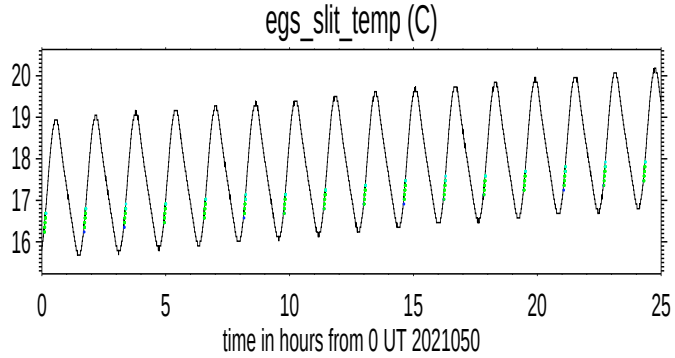
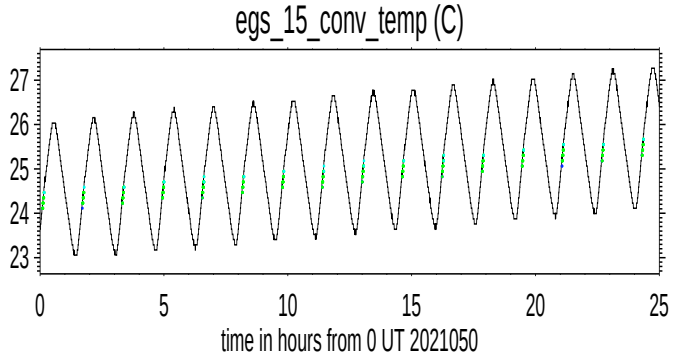
16
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_slit_temp (C)
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2021050


egs_15_conv_temp (C)
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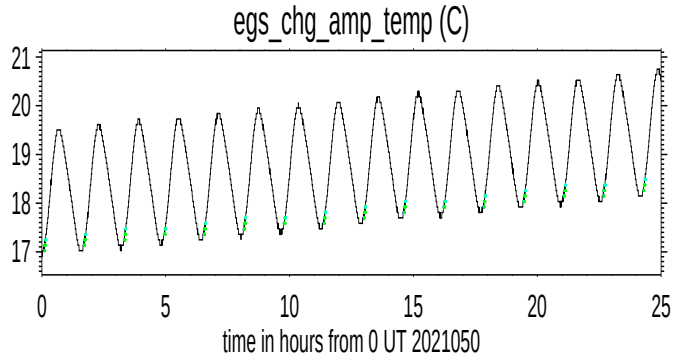
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2021050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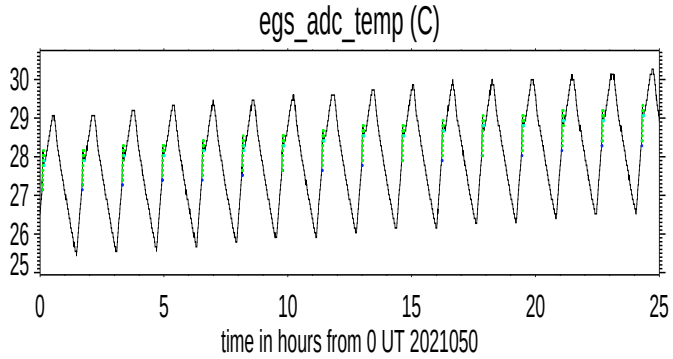
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2021050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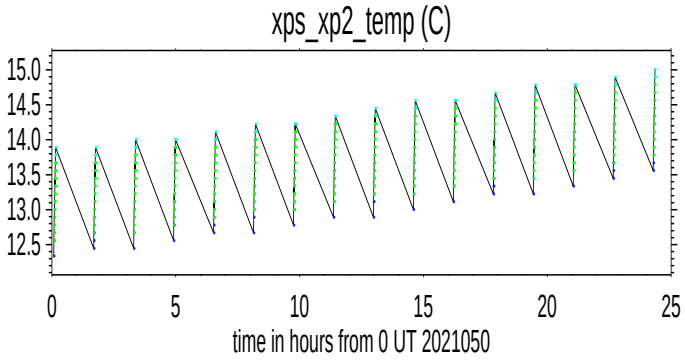
29
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_xp2_temp (C)
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13.5
13.0
12.5
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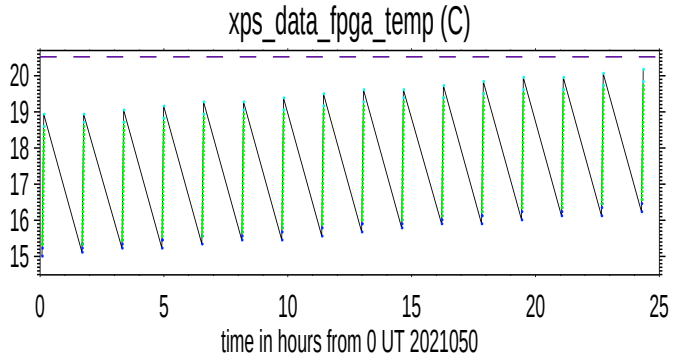
5
10
15
20
25
time in hours from 0 UT 2021050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19
18
17
16
15
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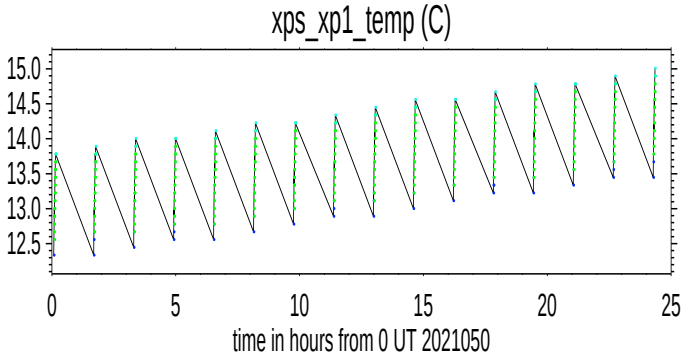
5
10
15
20
25
time in hours from 0 UT 2021050


xps_xp1_temp (C)
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13.0
12.5
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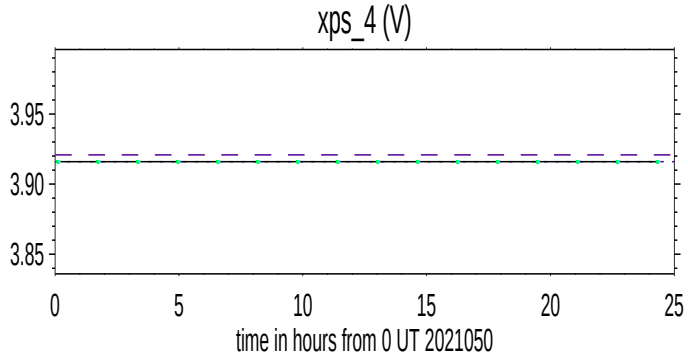
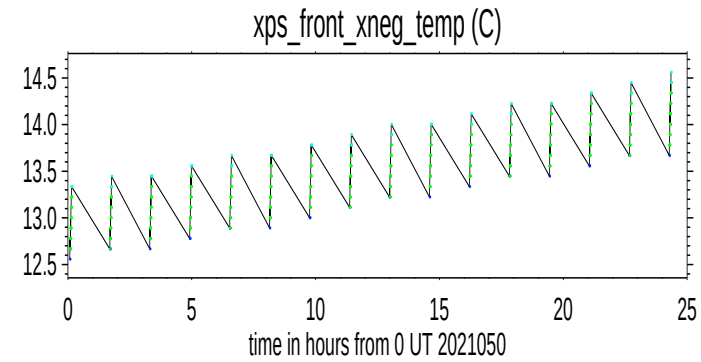
5
10
15
20
25
time in hours from 0 UT 2021050


xps_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_front_xneg_temp (C)
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12.5
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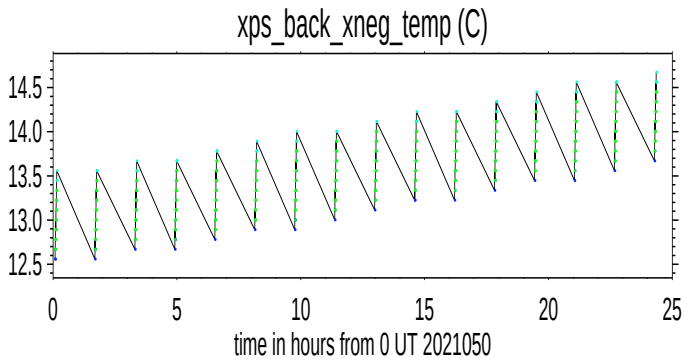
5
10
15
20
25
time in hours from 0 UT 2021050


xps_back_xneg_temp (C)
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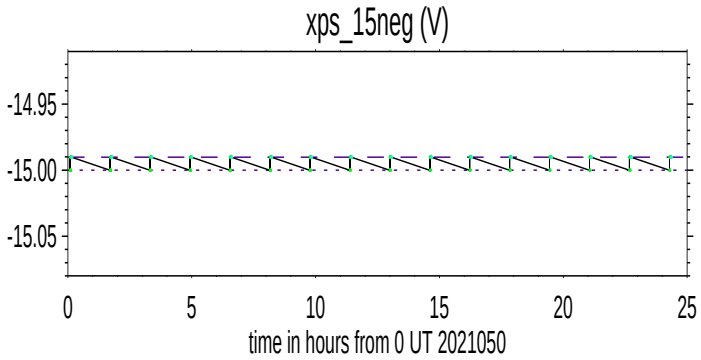
13.5
13.0
12.5
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_15neg (V)
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-15.05
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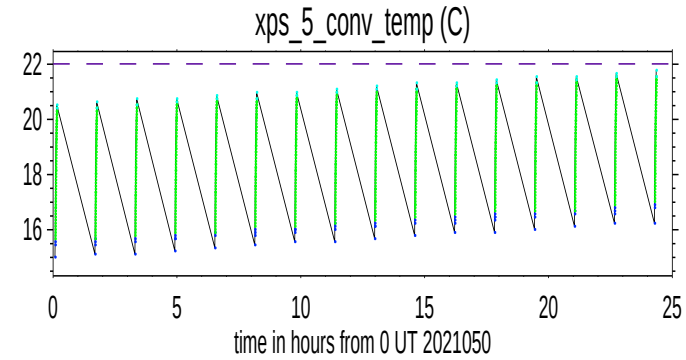
5
10
15
20
25
time in hours from 0 UT 2021050


xps_5_conv_temp (C)
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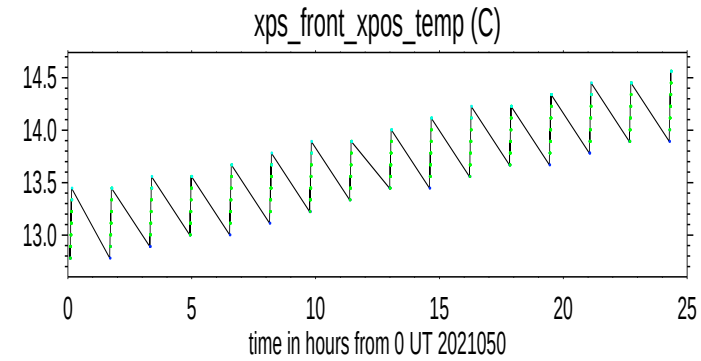
10
15
20
25
time in hours from 0 UT 2021050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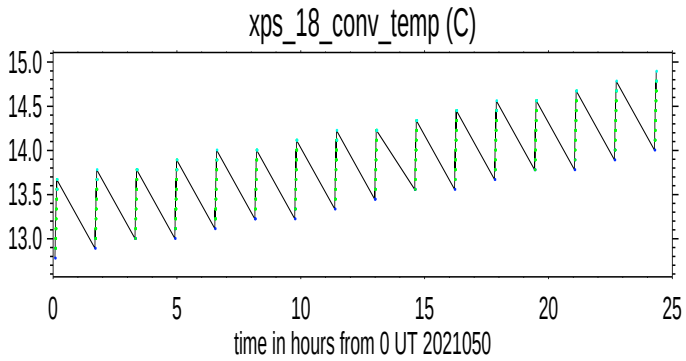
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_18_conv_temp (C)
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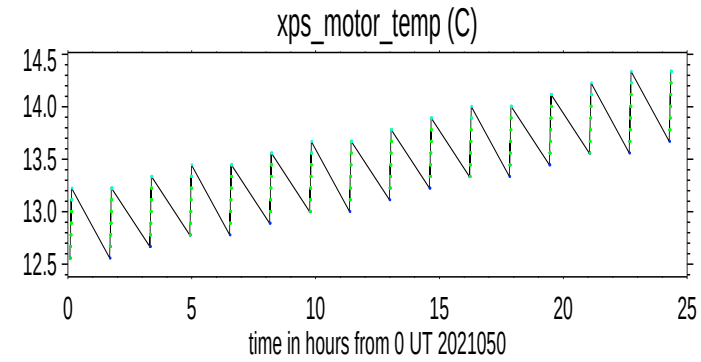
10
15
20
25
time in hours from 0 UT 2021050


xps_motor_temp (C)
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13.0
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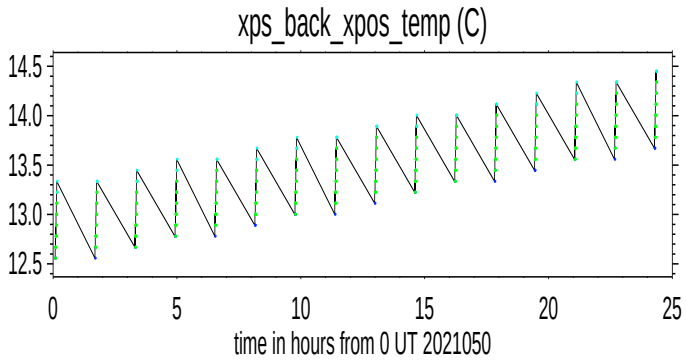
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_back_xpos_temp (C)
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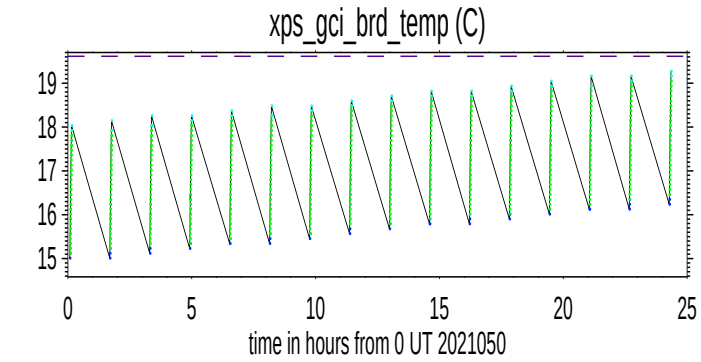
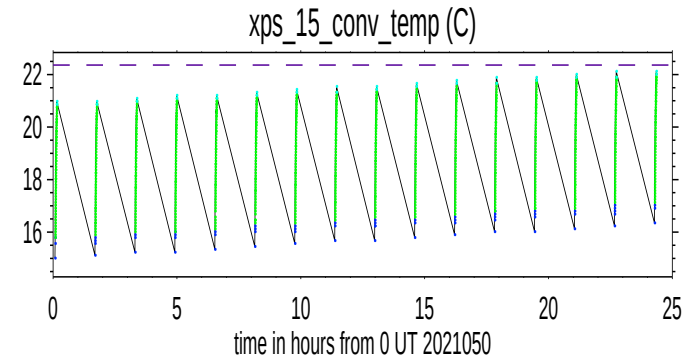
13.5
13.0
12.5
0
5
10
15
20
25
time in hours from 0 UT 2021050


xps_gci_brd_temp (C)
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050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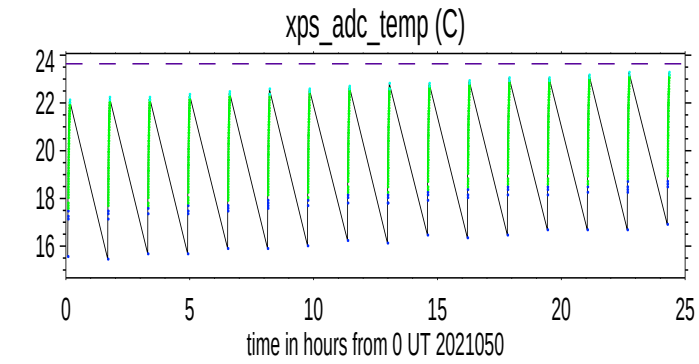
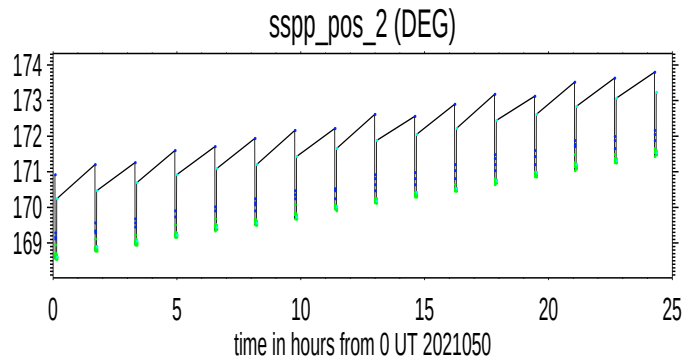
10
15
20
25
time in hours from 0 UT 2021050


xps_adc_temp (C)
24
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021050


sspp_pos_2 (DEG)
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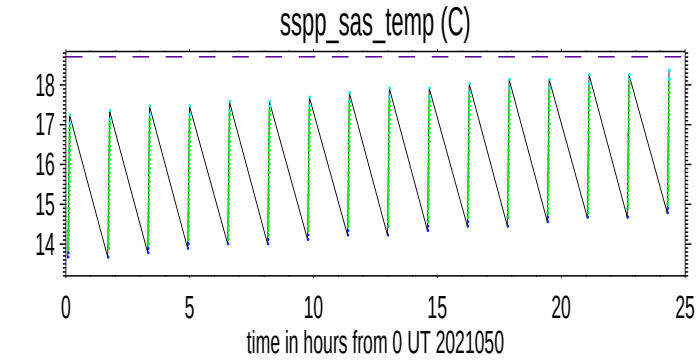
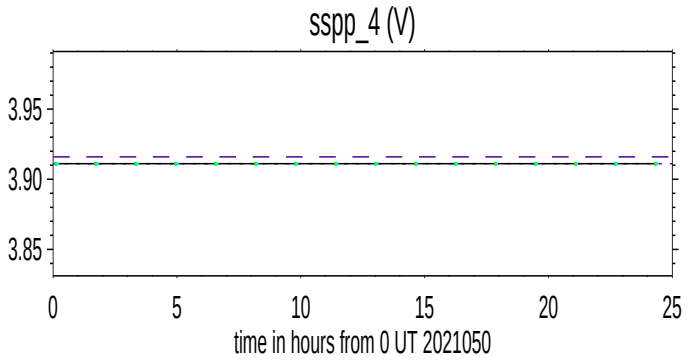
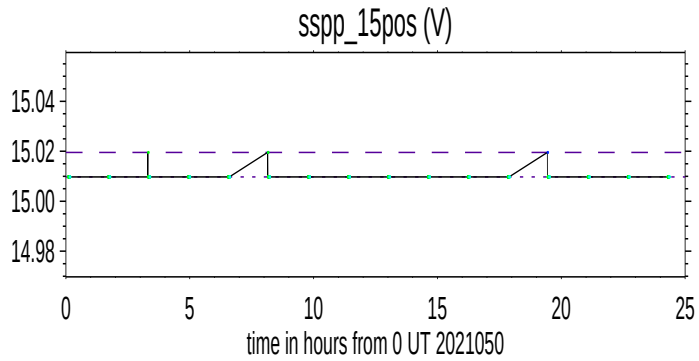
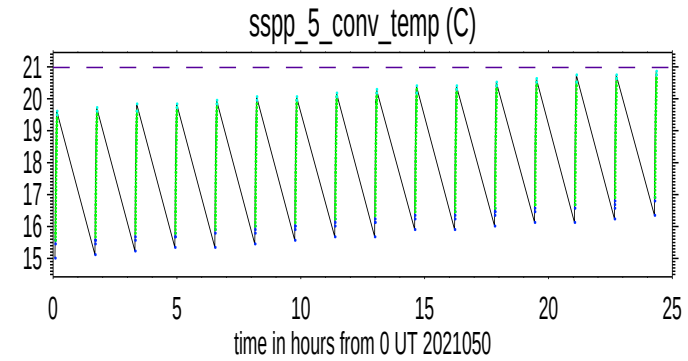
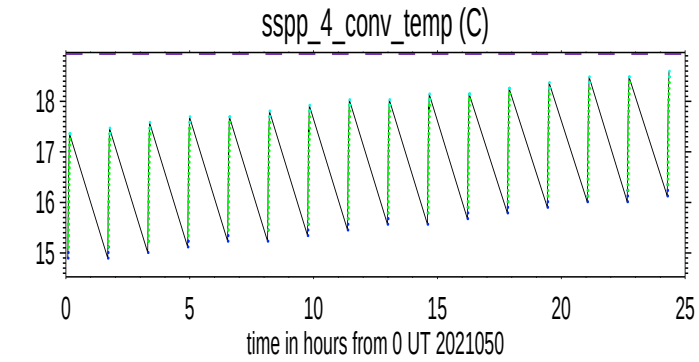
173
172
171
170
169
0
5
10
15
20
25
time in hours from 0 UT 2021050

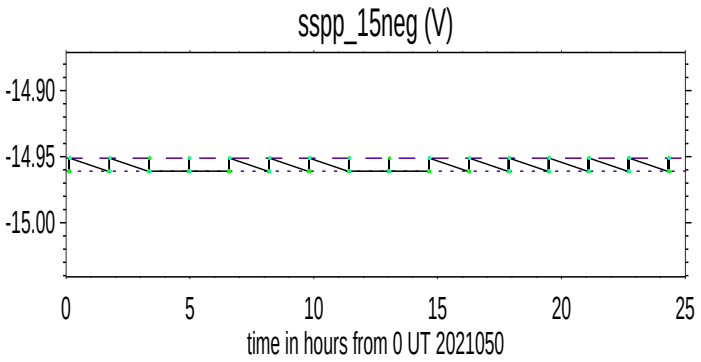

sspp_sas_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021050

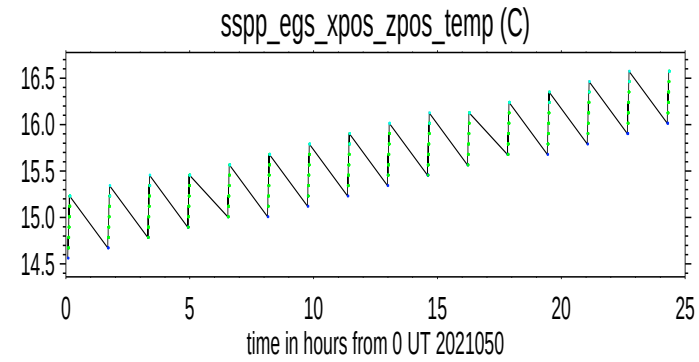

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021050

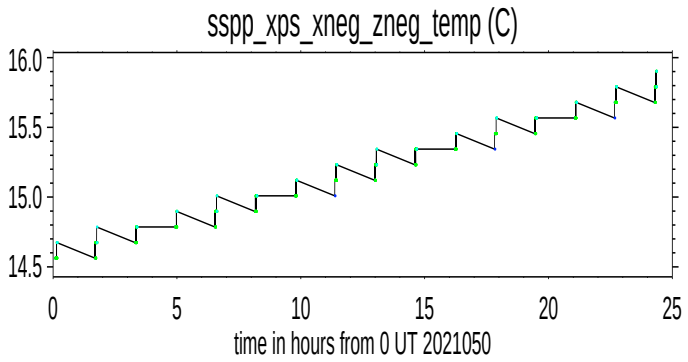

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021050

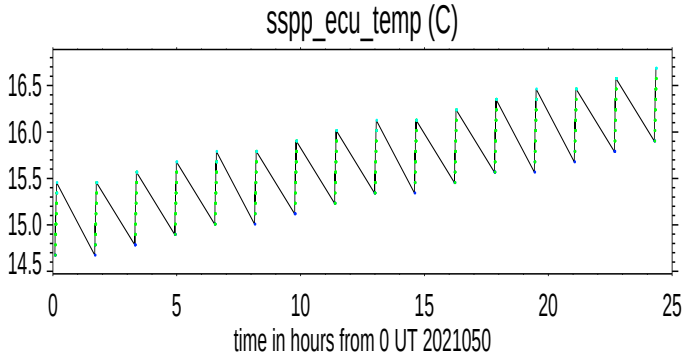

sspp_5_conv_temp (C)
21
20
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050

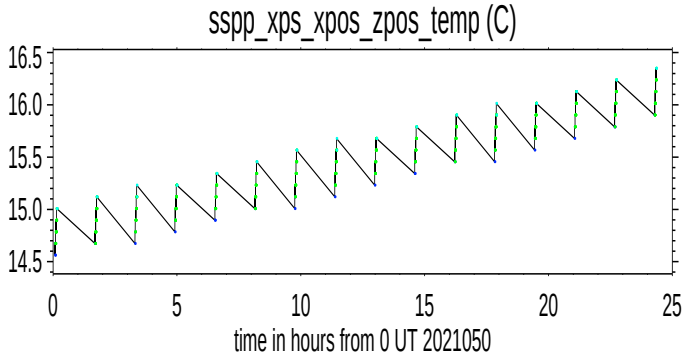

sspp_4_conv_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050

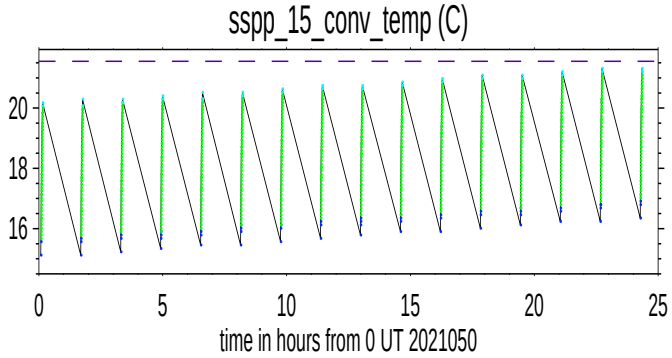

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021050

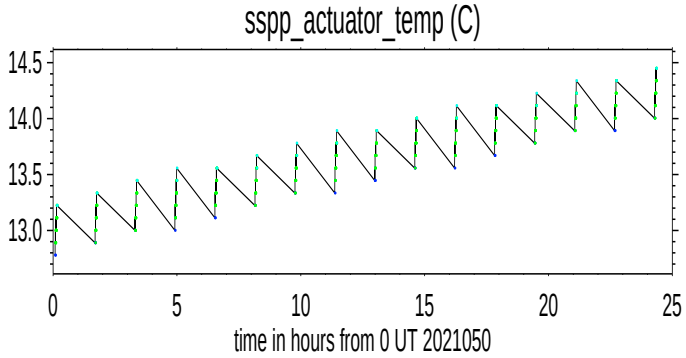

sspp_egs_xpos_zpos_temp (C)
16.5
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021050

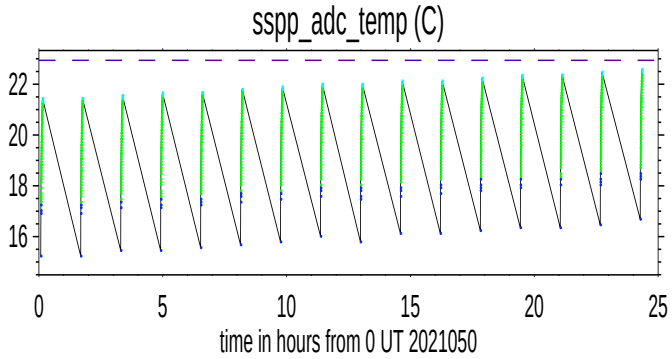

sspp_xps_xneg_zneg_temp (C)
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021050

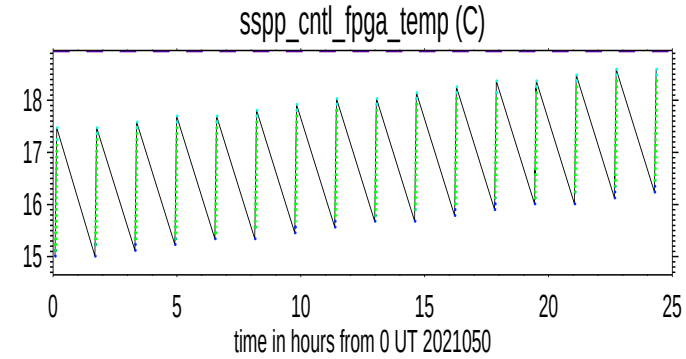

sspp_ecu_temp (C)
16.5
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021050

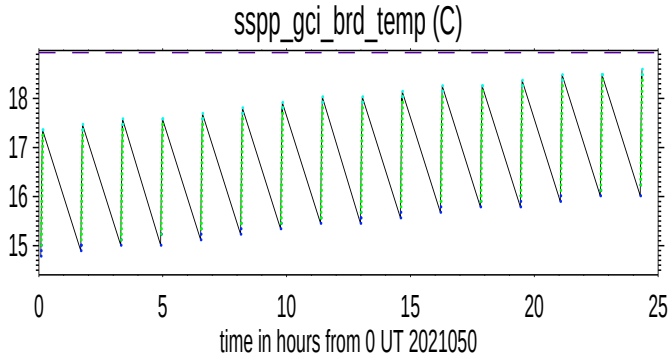

sspp_xps_xpos_zpos_temp (C)
16.5
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2021050

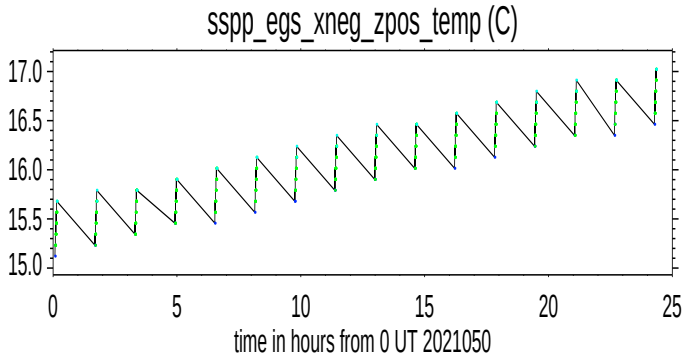

sspp_15_conv_temp (C)
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021050

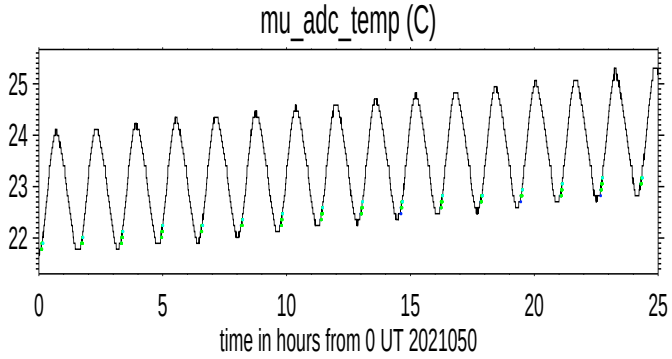

sspp_actuator_temp (C)
14.5
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2021050

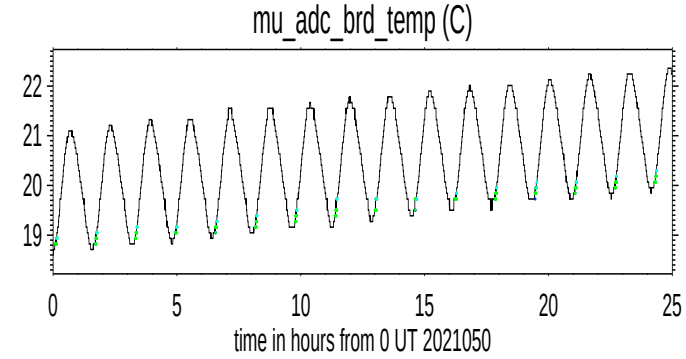

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021050

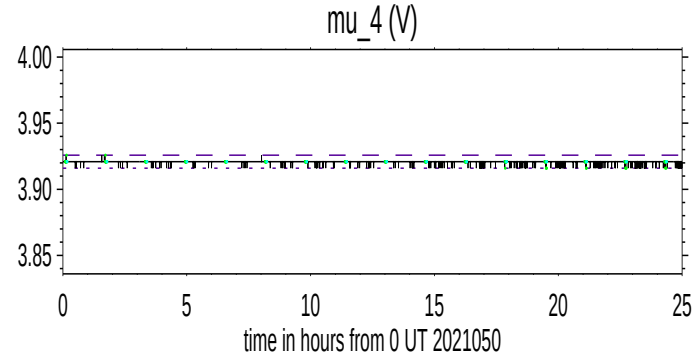

sspp_cntl_fpga_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050

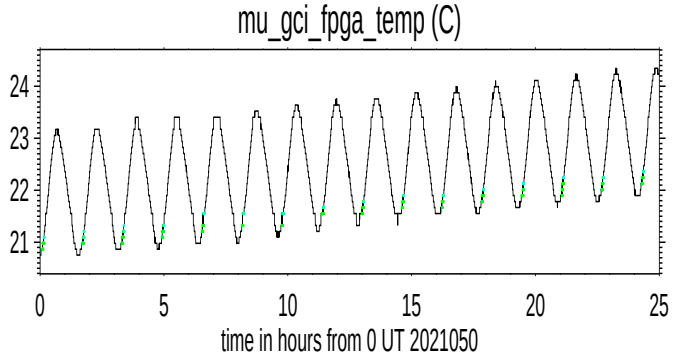

sspp_gci_brd_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021050

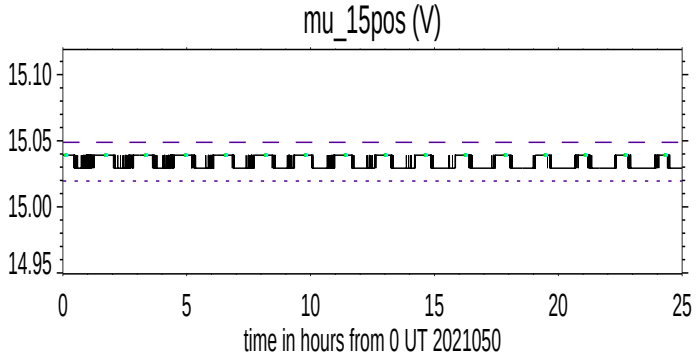

sspp_egs_xneg_zpos_temp (C)
17.0
16.5
16.0
15.5
15.0
0
5
10
15
20
25
time in hours from 0 UT 2021050

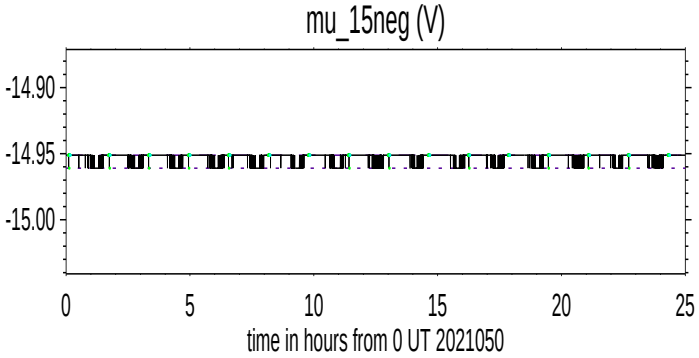

mu_adc_temp (C)
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021050

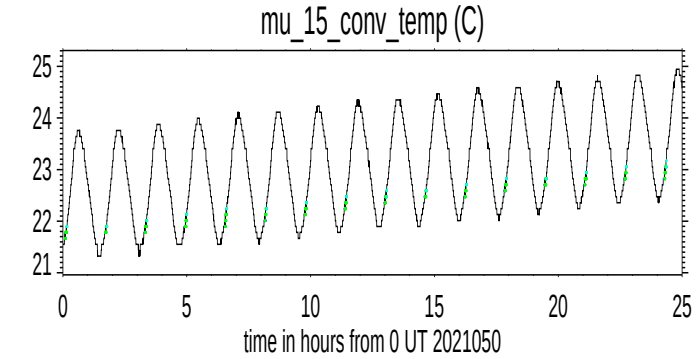

mu_adc_brd_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021050

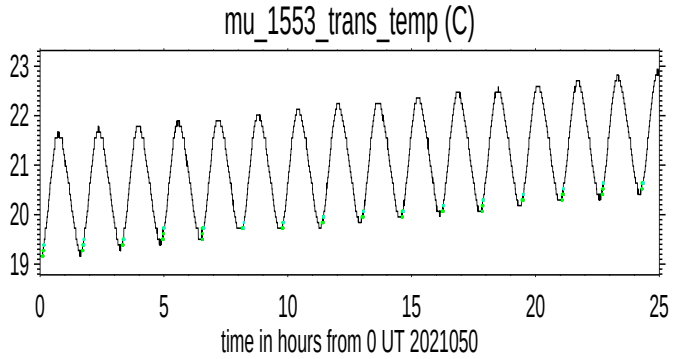

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021050

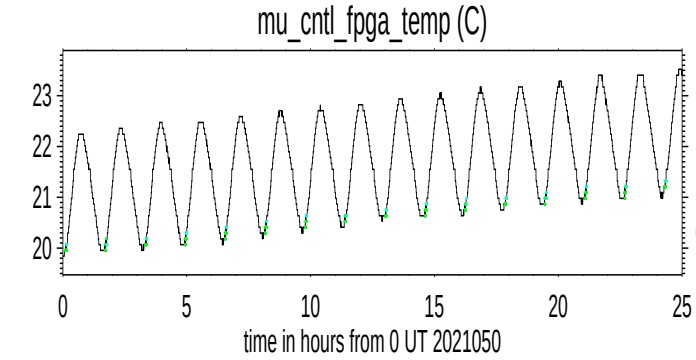

mu_gci_fpga_temp (C)
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021050

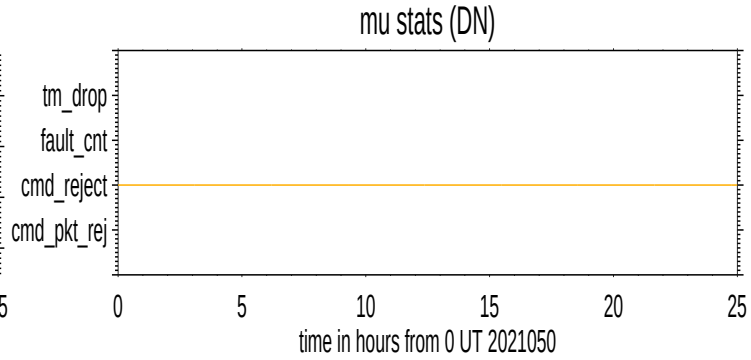

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2021050

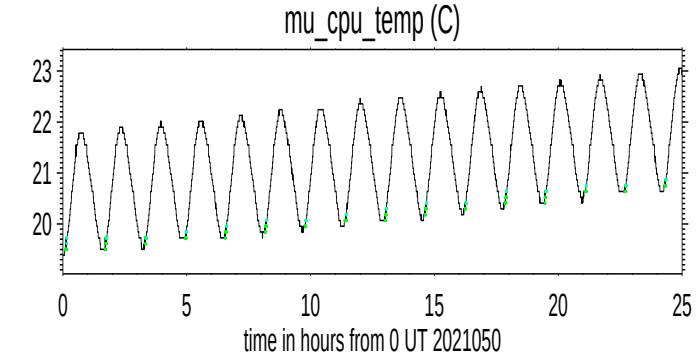

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021050

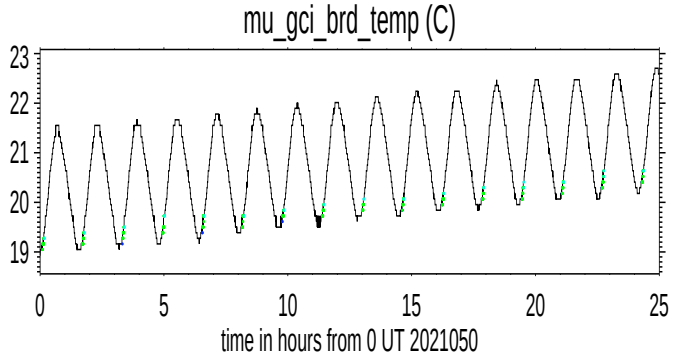

mu_15_conv_temp (C)
25
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021050

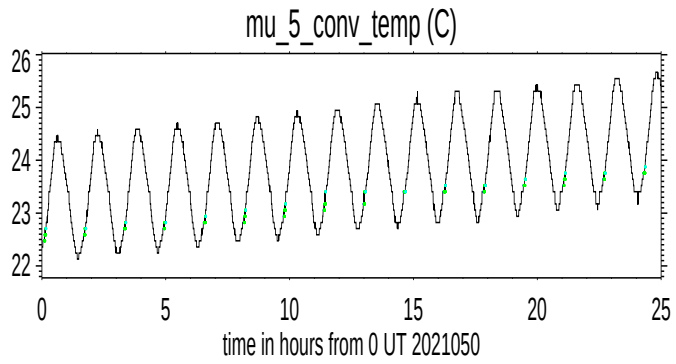

mu_1553_trans_temp (C)
23
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021050

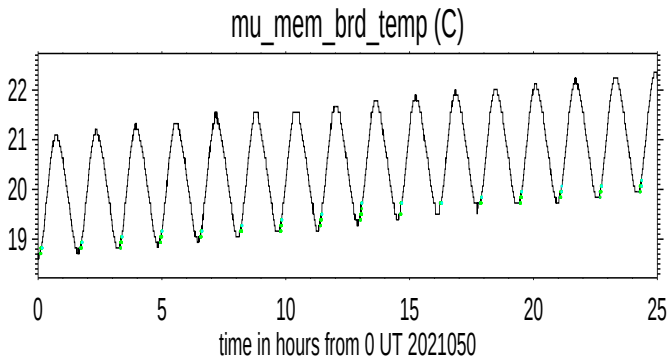

mu_cntl_fpga_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021050

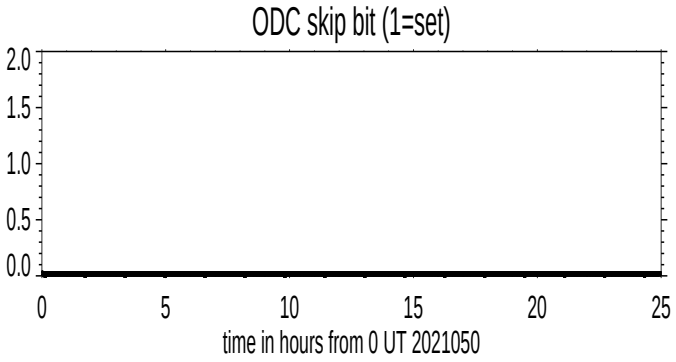

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2021050

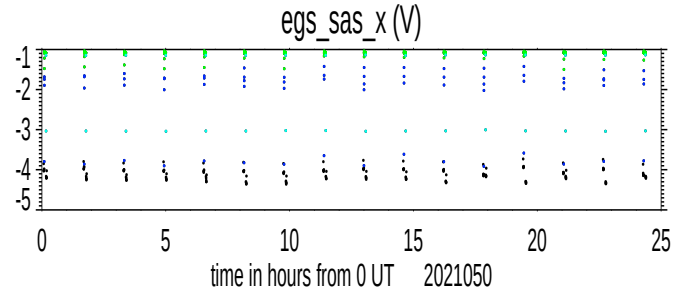

mu_cpu_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021050

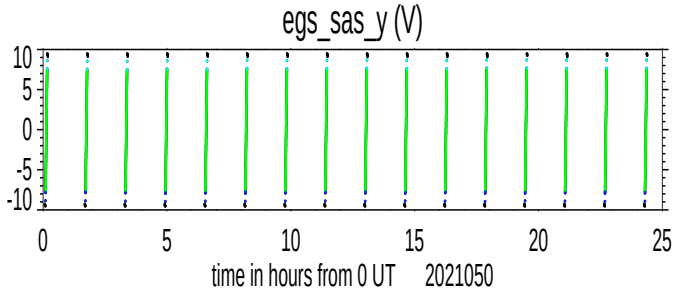

mu_gci_brd_temp (C)
23
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021050

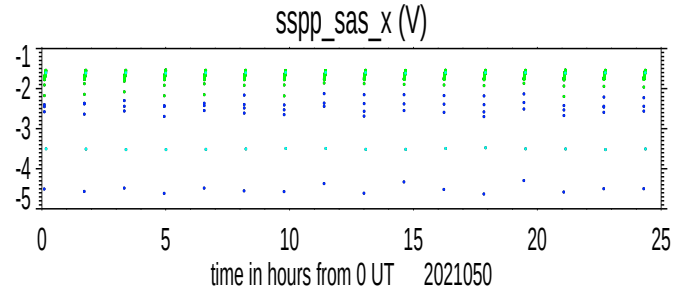

mu_5_conv_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2021050

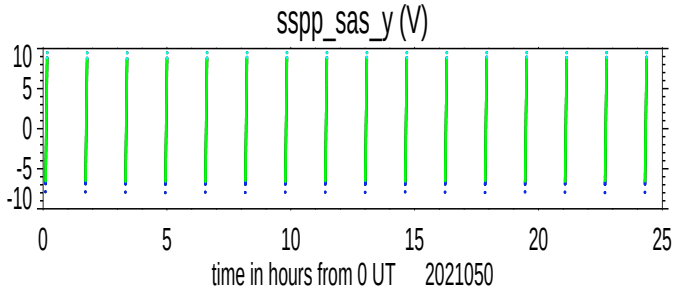

mu_mem_brd_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2021050

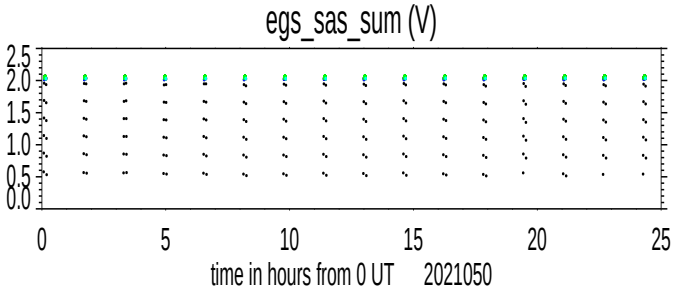

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021050

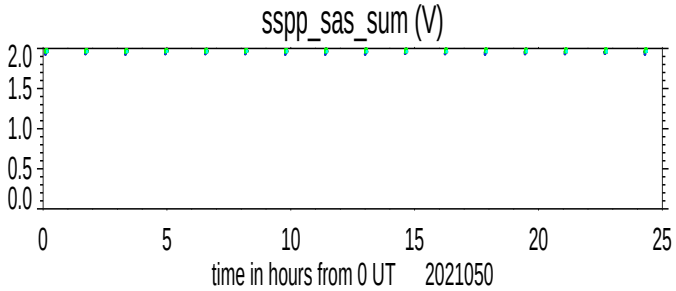

egs_sas_x (V)
time in hours from 0 UT 2021050

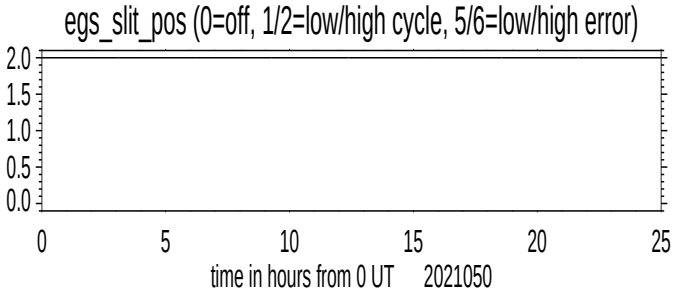

egs_sas_y (V)
time in hours from 0 UT 2021050

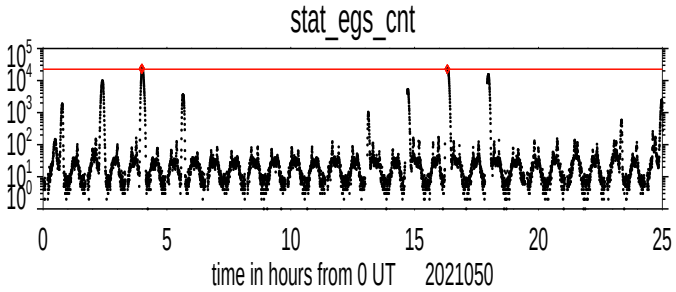

sspp_sas_x (V)
time in hours from 0 UT 2021050

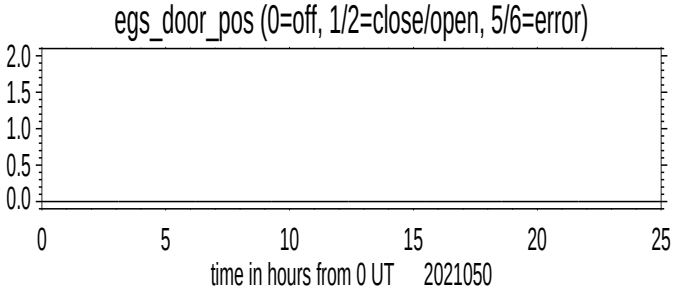

sspp_sas_y (V)
time in hours from 0 UT 2021050

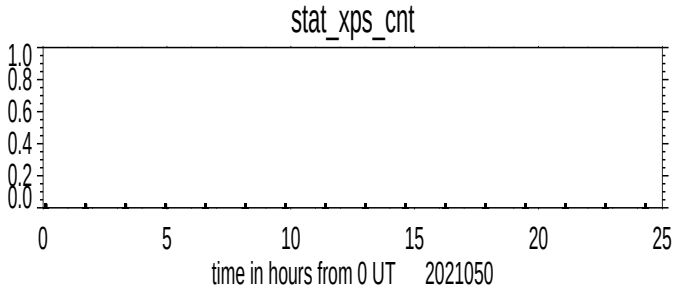

egs_sas_sum (V)
time in hours from 0 UT 2021050

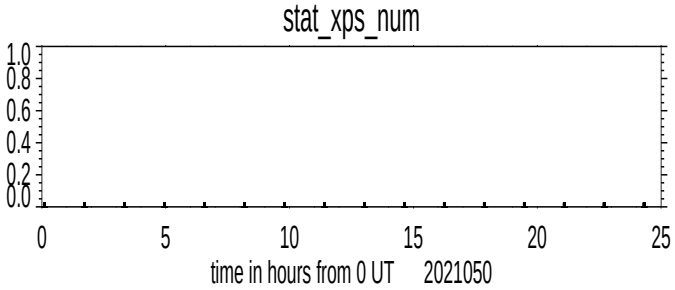

sspp_sas_sum (V)
time in hours from 0 UT 2021050

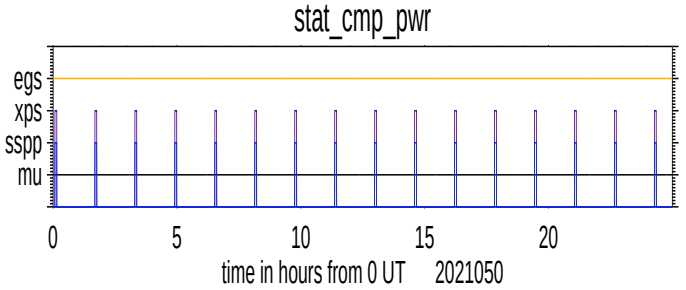

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021050


stat_egs_cnt
time in hours from 0 UT 2021050

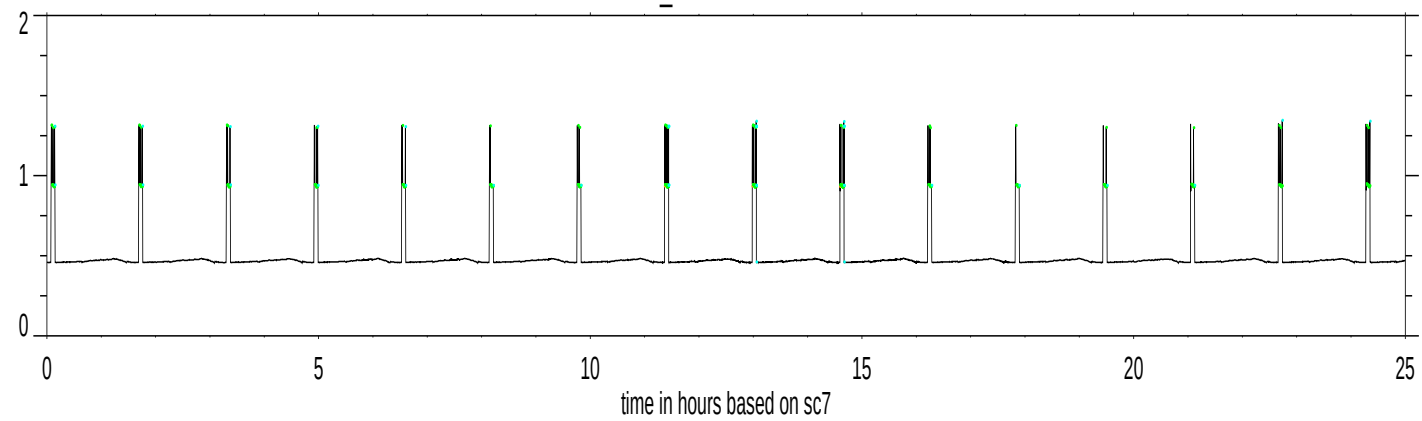

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021050


stat_xps_cnt
time in hours from 0 UT 2021050

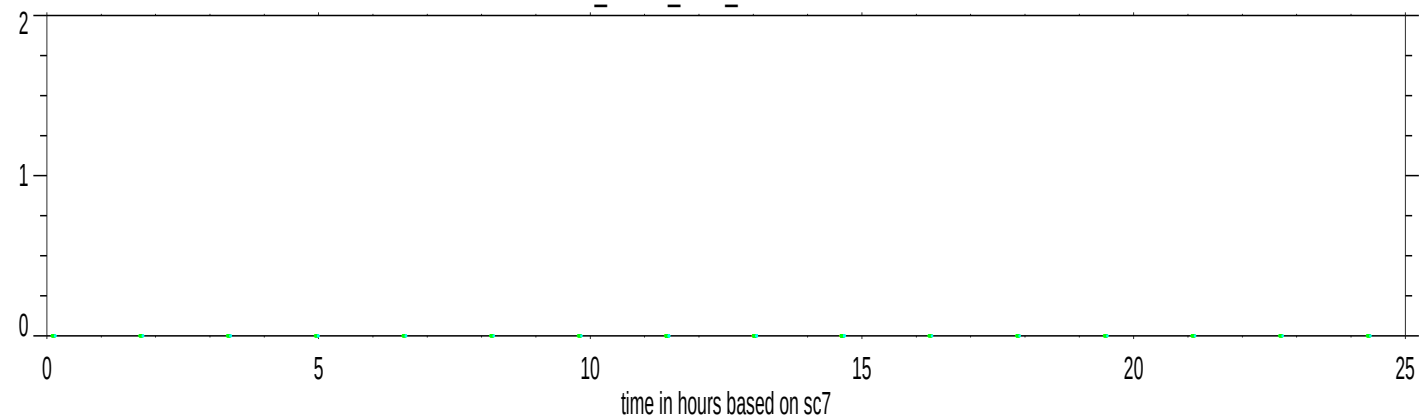

stat_xps_num
time in hours from 0 UT 2021050


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021050

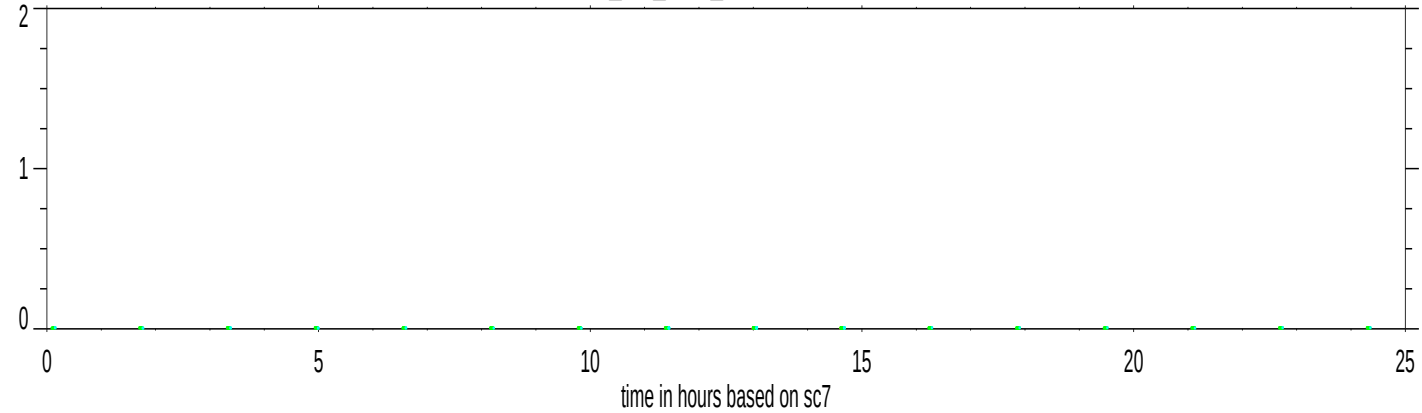
SEE_CUR 2021050



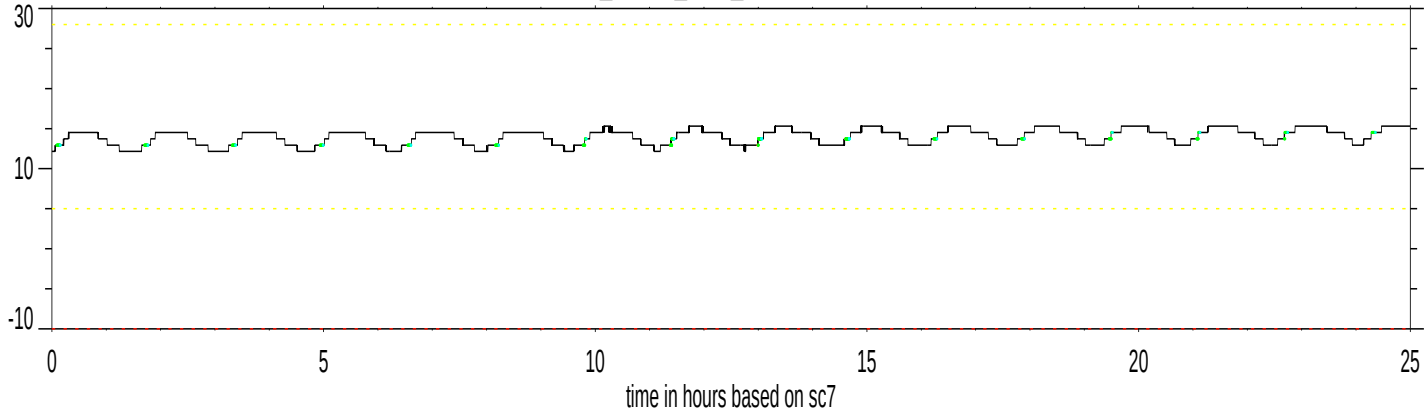
SEE_SURV_HTR_CUR 2021050

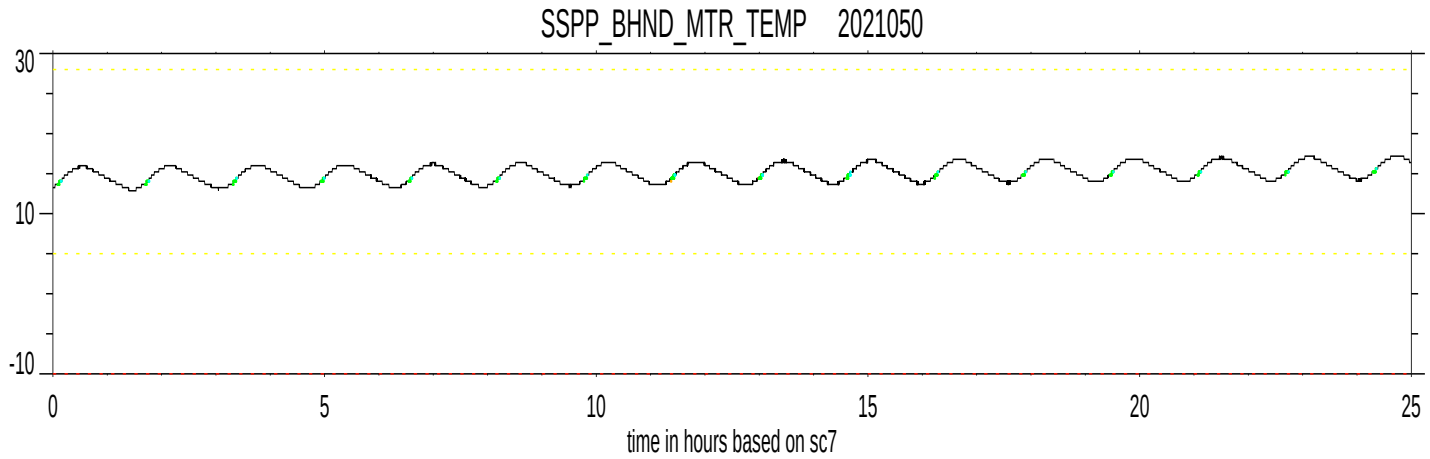


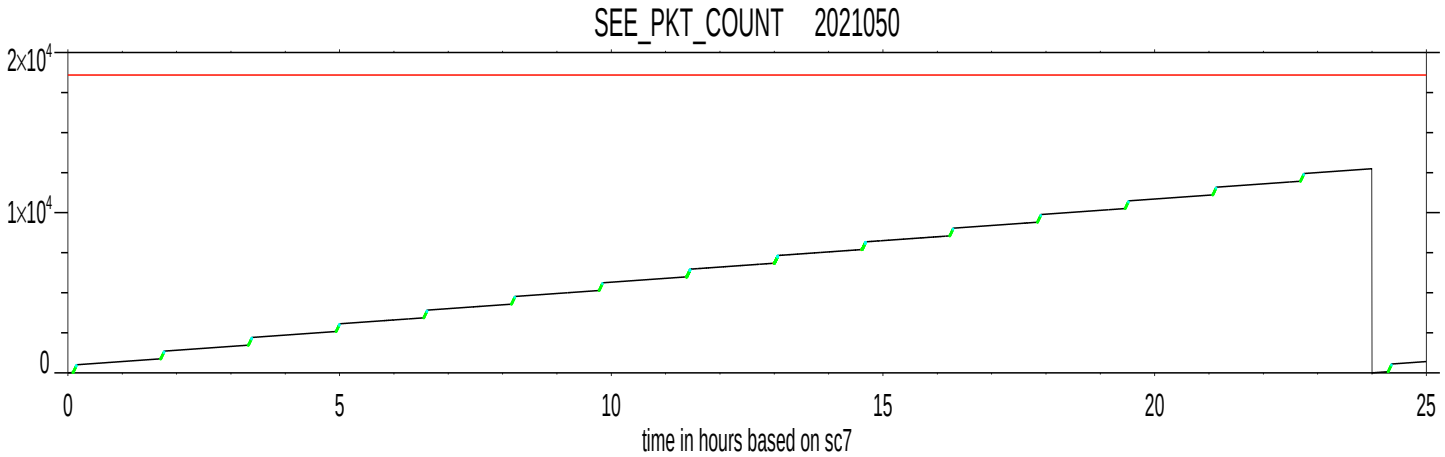
SEE_OP_HTR_CUR 2021050

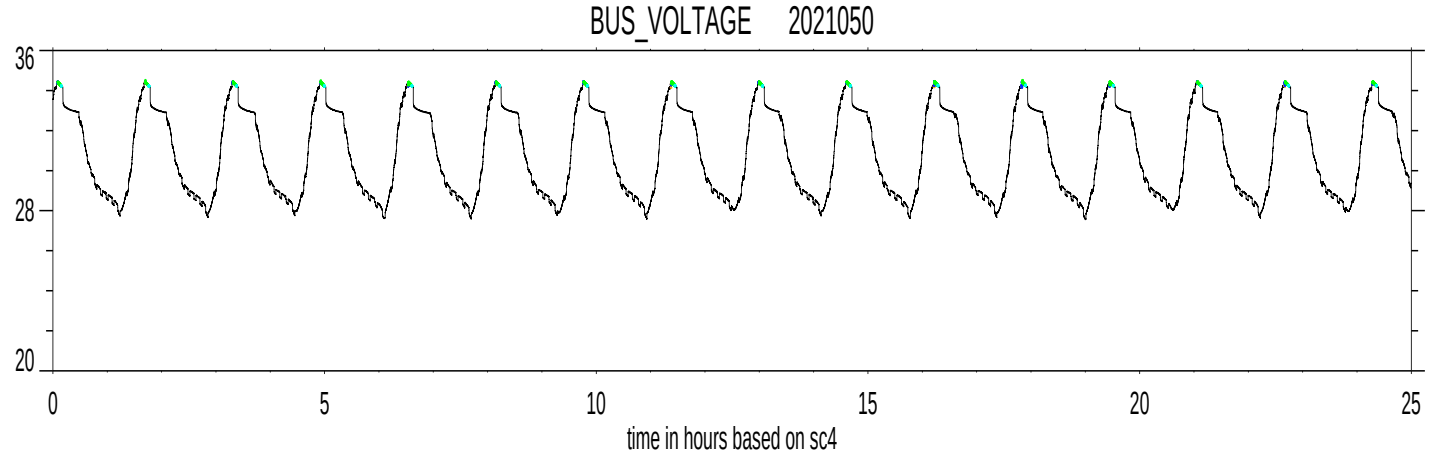


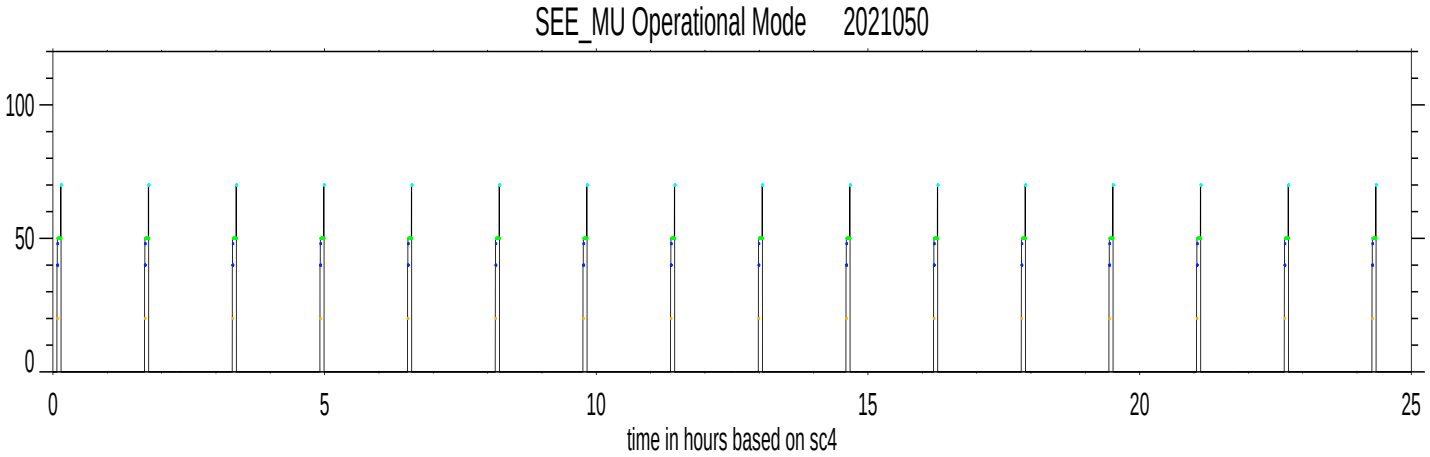
SSPP_BHND_XPS_TEMP 2021050

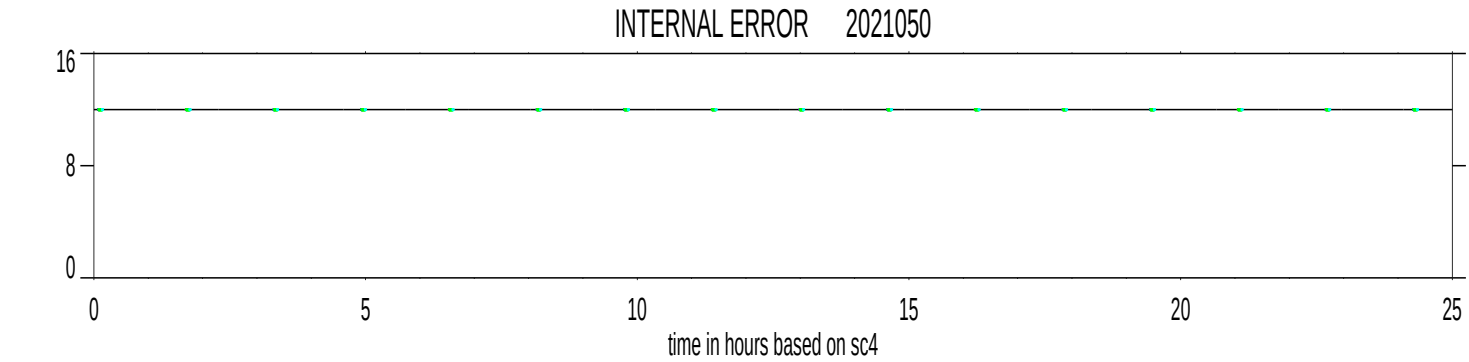


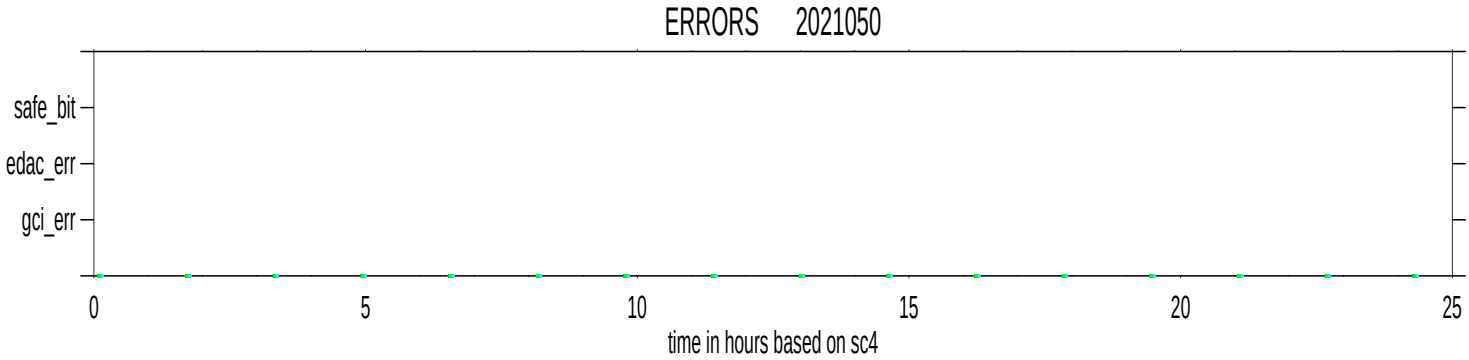

SSPP_BHND_MTR_TEMP 2021050
30
10
-10
0
5
10
15
20
25
time in hours based on sc7

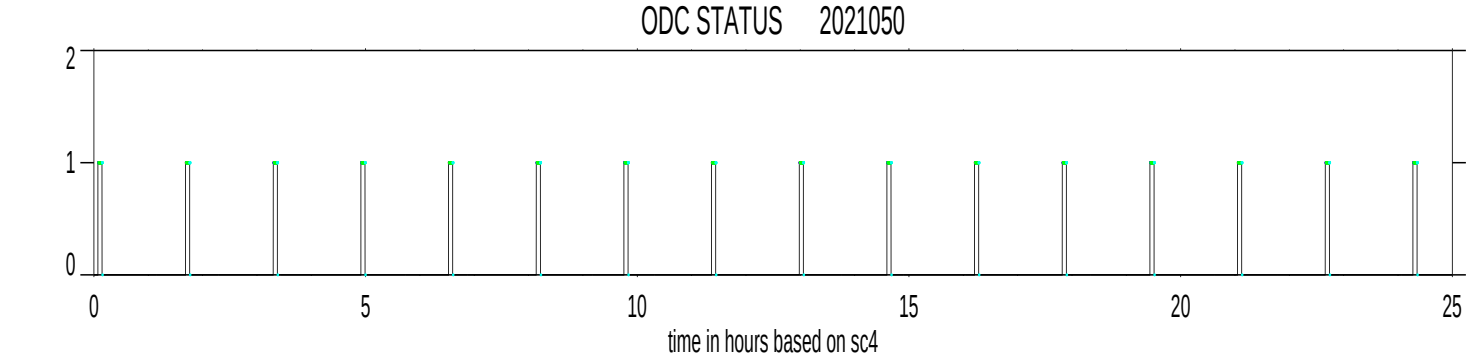

SEE_PKT_COUNT 2021050
2x10^4
1x10^4
0
0
5
10
15
20
25
time in hours based on sc7

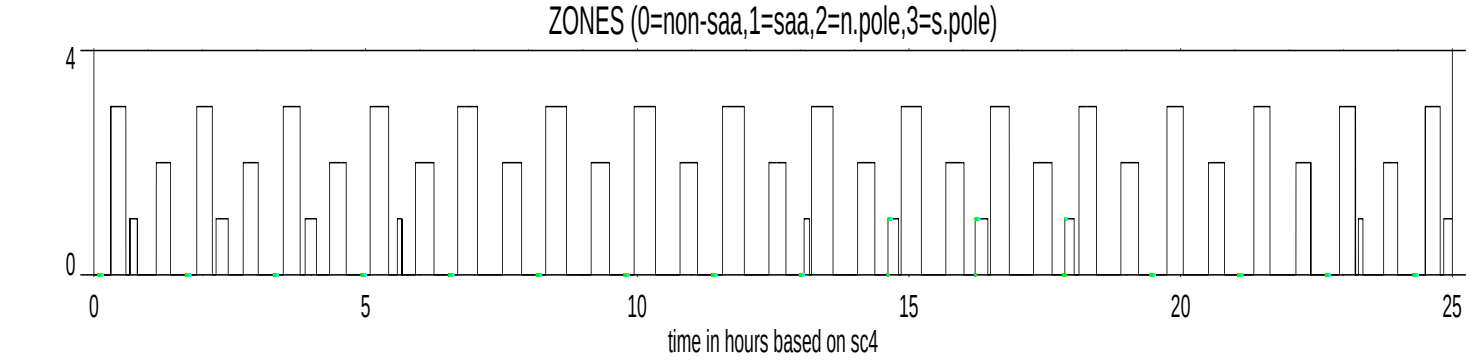

BUS_VOLTAGE 2021050
36
28
20
0
5
10
15
20
25
time in hours based on sc4

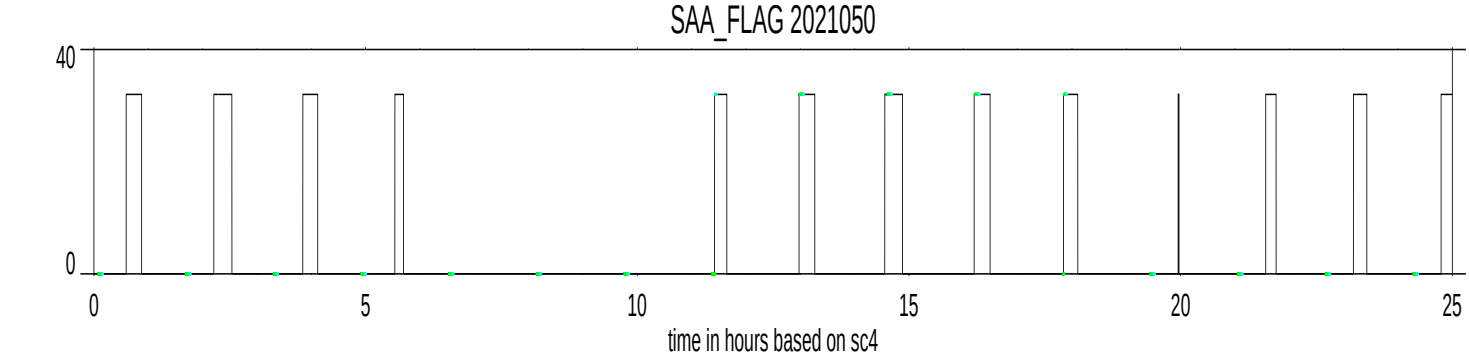

SEE_MU Operational Mode 2021050
100
50
0
0
5
10
15
20
25
time in hours based on sc4

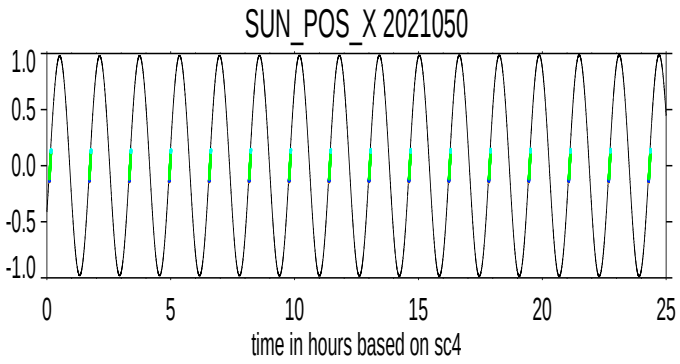

INTERNAL ERROR 2021050
16
8
0
0
5
10
15
20
25
time in hours based on sc4

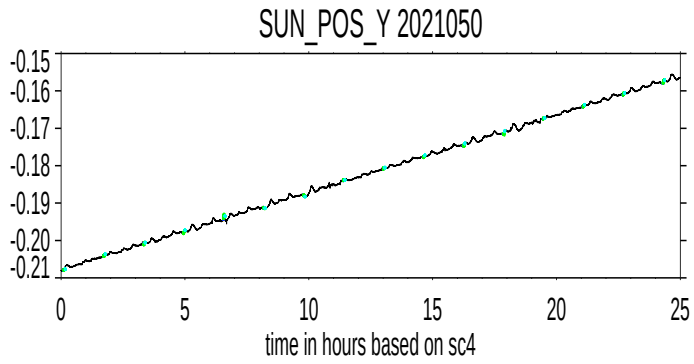

ERRORS 2021050
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

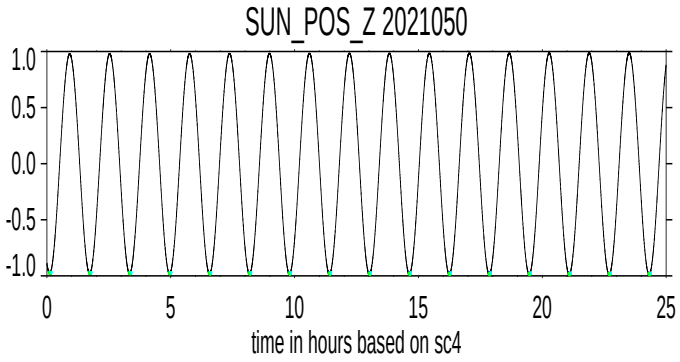

ODC STATUS 2021050
2
1
0
0
5
10
15
20
25
time in hours based on sc4

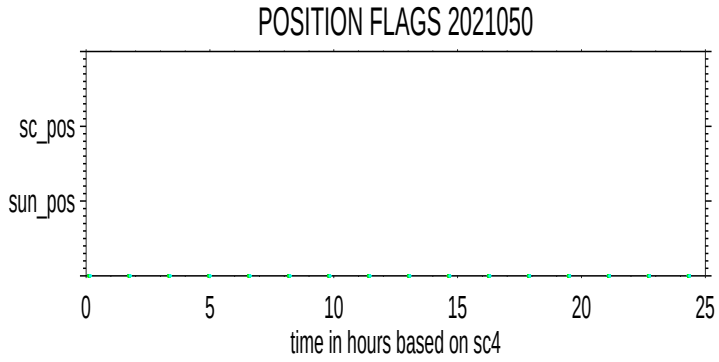

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

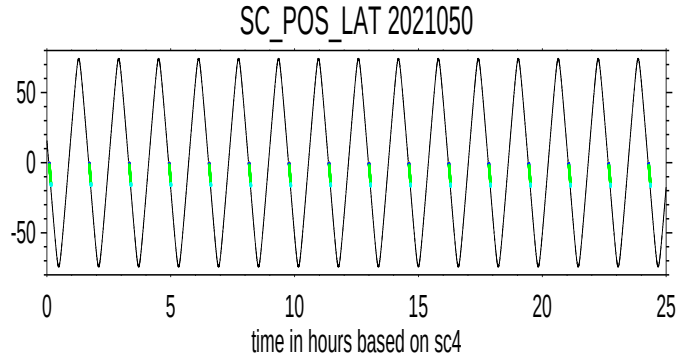

SAA_FLAG 2021050
40
0
0
5
10
15
20
25
time in hours based on sc4

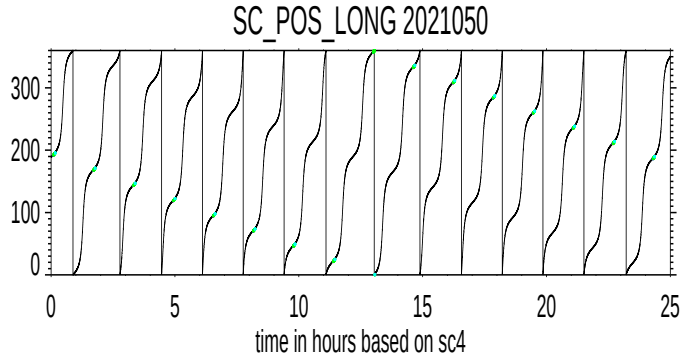

SUN_POS_X 2021050
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

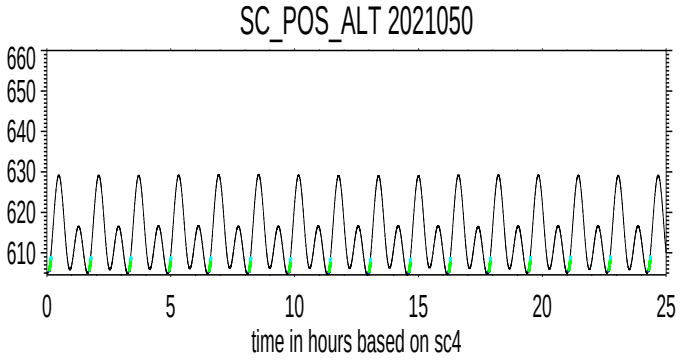

SUN_POS_Y 2021050
-0.15
-0.16
-0.17
-0.18
-0.19
-0.20
-0.21
0
5
10
15
20
25
time in hours based on sc4

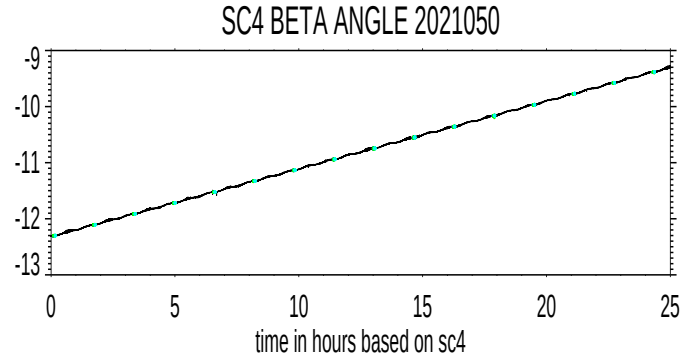

SUN_POS_Z 2021050
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021050
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021050
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021050
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021050
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021050
-9
-10
-11
-12
-13
0
5
10
15
20
25
time in hours based on sc4