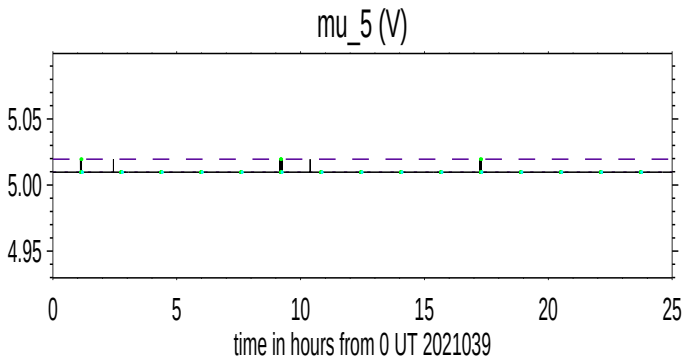
```
Information for      2021039
18:55:34.002: see_stat[1]: 3 internal error
```

/export/timed/data/science_dp/tlm_limit/outoflimit_2021039_012.txt
Wed Mar 10 06:14:07 2021 1

RH OutOfLimit 1296777625 1296867613 hk.mu_cmd_pkt_reject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5.00
4.95
0
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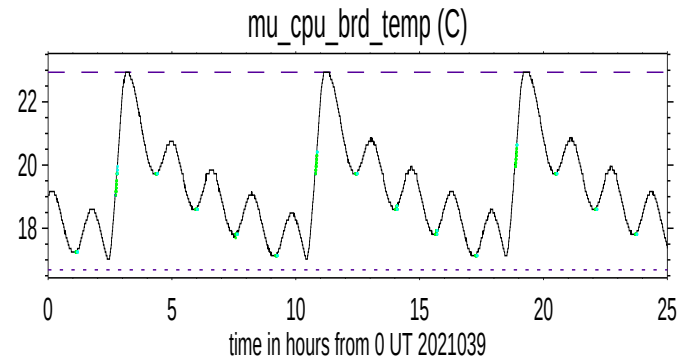
10
15
20
25
time in hours from 0 UT 2021039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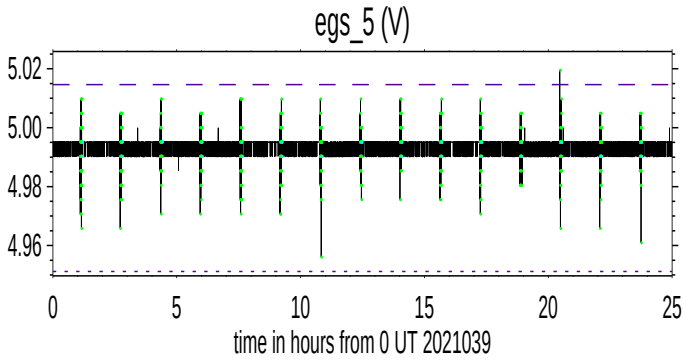
time in hours from 0 UT 2021039


egs_5 (V)
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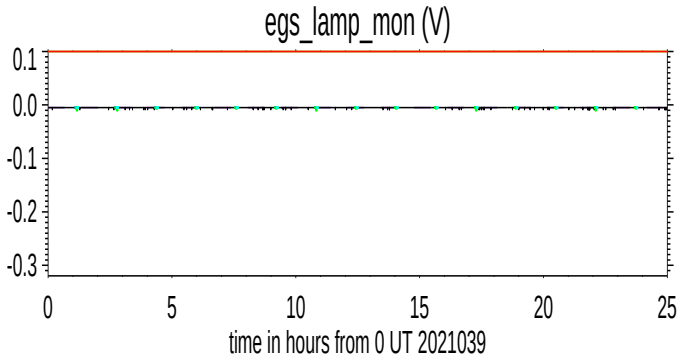
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_lamp_mon (V)
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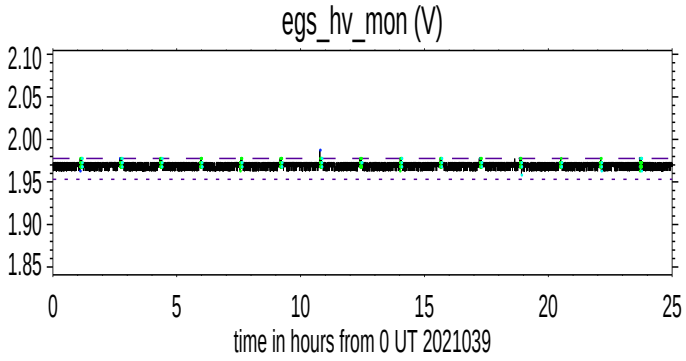
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_hv_mon (V)
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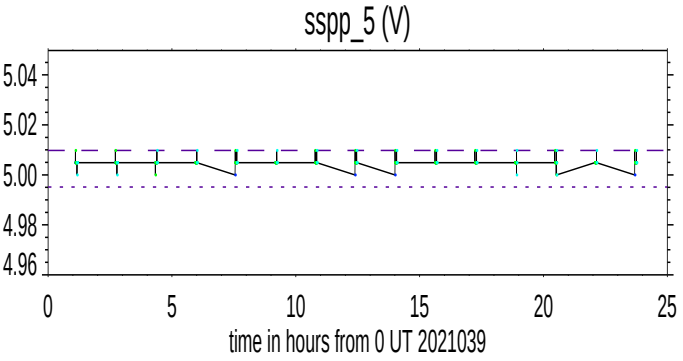
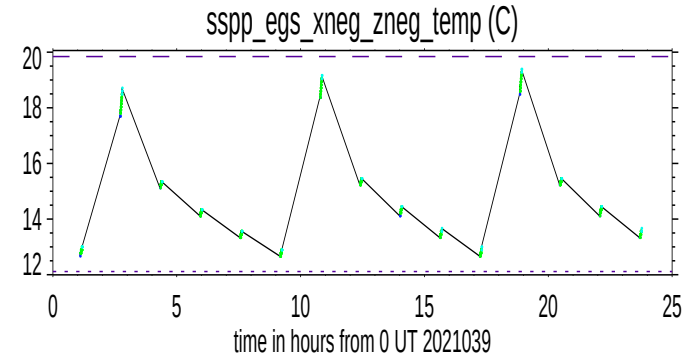
2.05
2.00
1.95
1.90
1.85
0
5
10
15
20
25
time in hours from 0 UT 2021039


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 2021039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18
16
14
12
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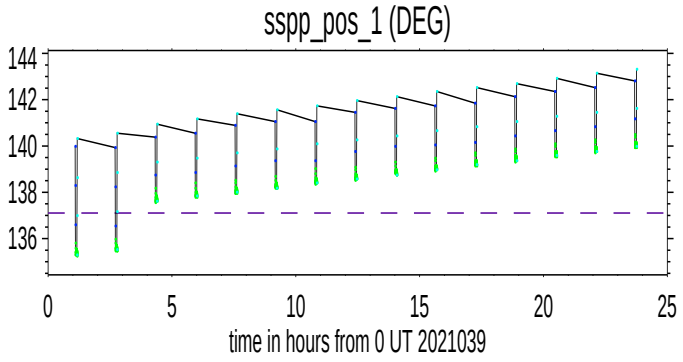
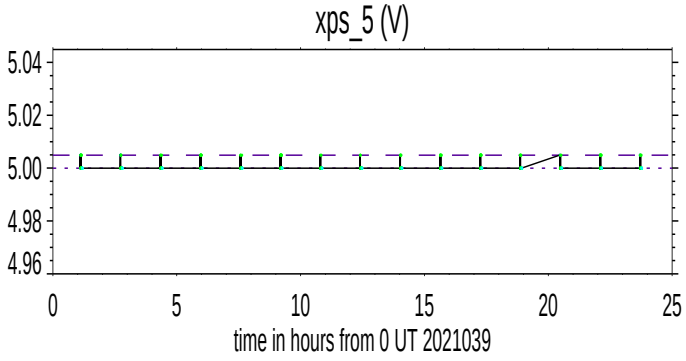
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_pos_1 (DEG)
144
142
140
138
136
0
5
10
15
20
25
time in hours from 0 UT 2021039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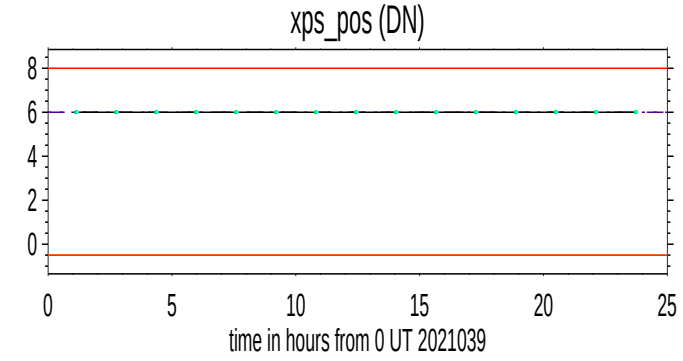
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021039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8
6
4
2
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10
15
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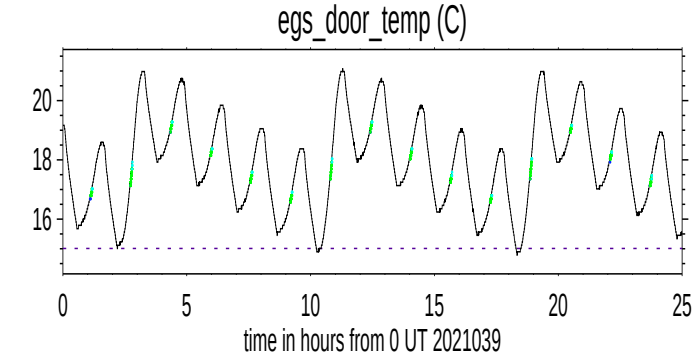
25
time in hours from 0 UT 2021039


egs_door_temp (C)
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18
16
0
5
10
15
20
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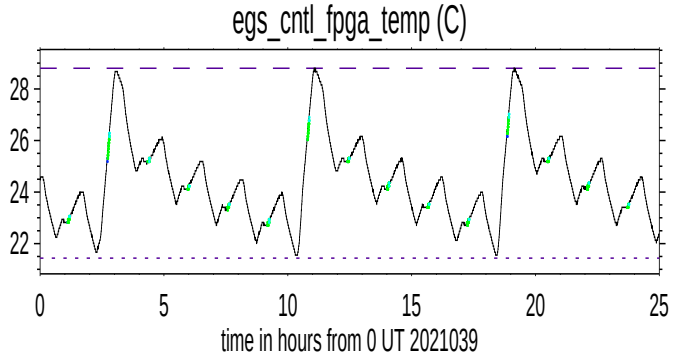
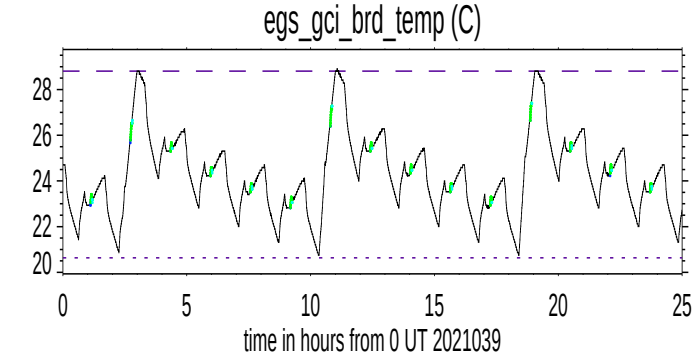
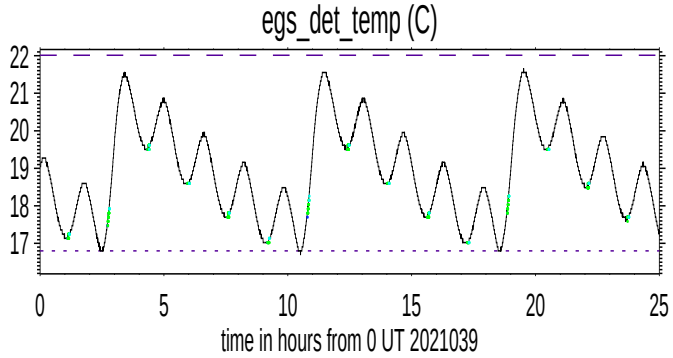
time in hours from 0 UT 2021039


egs_cntl_fpga_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_gci_brd_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021039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21
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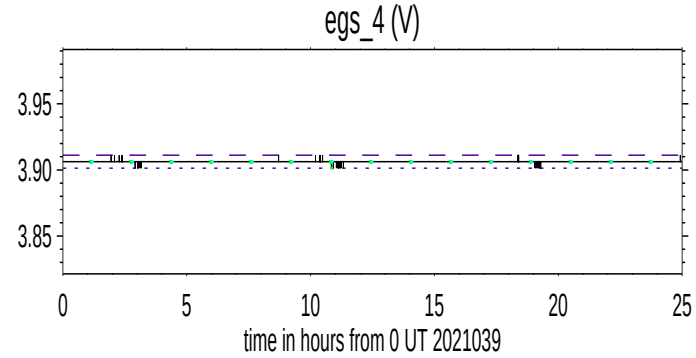
18
17
0
5
10
15
20
25
time in hours from 0 UT 2021039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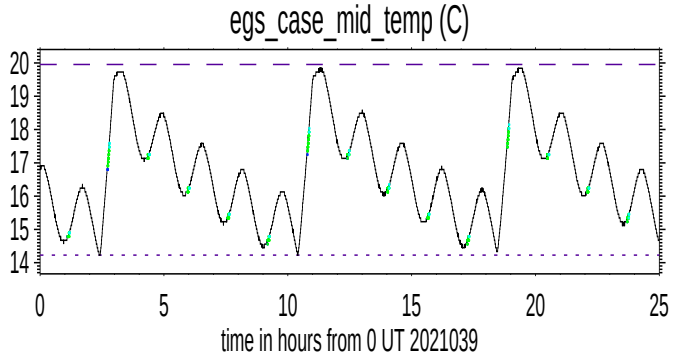
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021039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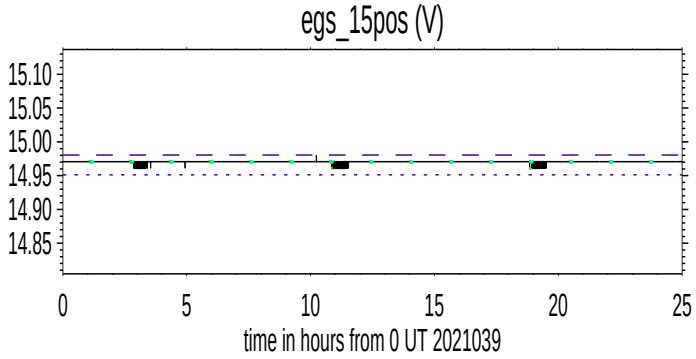
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_15pos (V)
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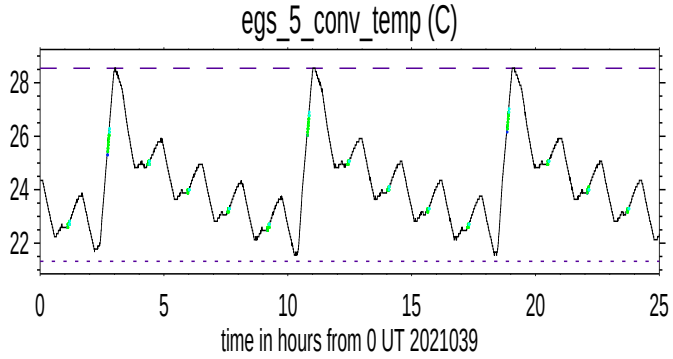
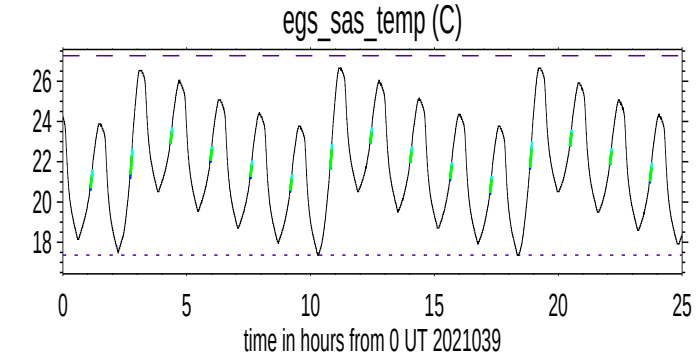
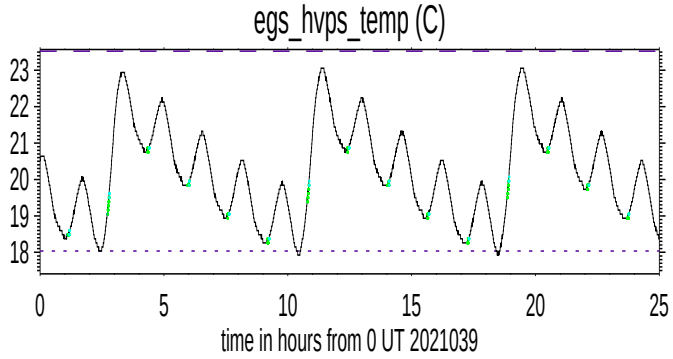
15.05
15.00
14.95
14.90
14.85
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_sas_temp (C)
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021039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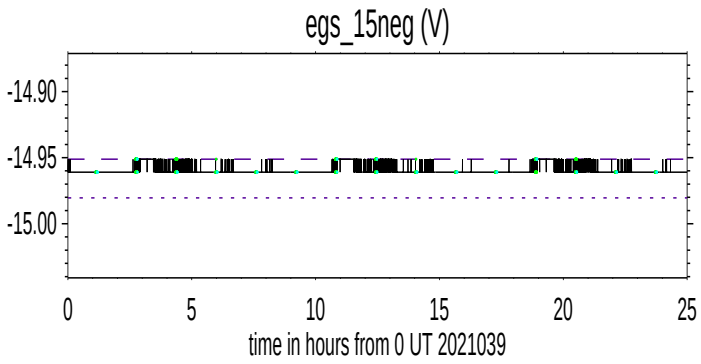
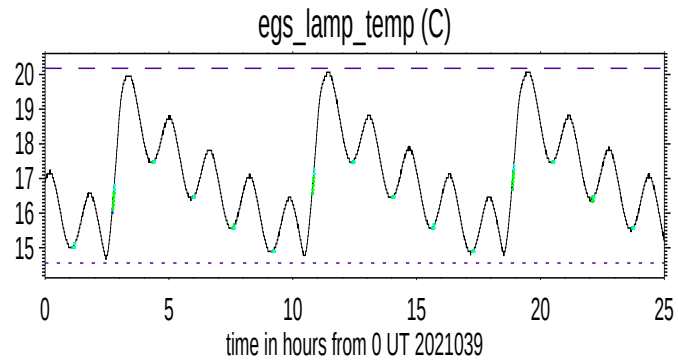
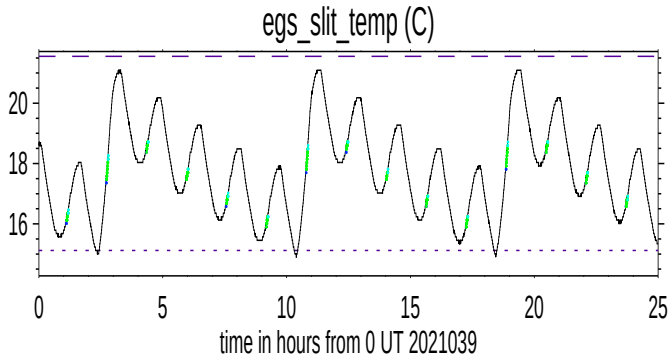
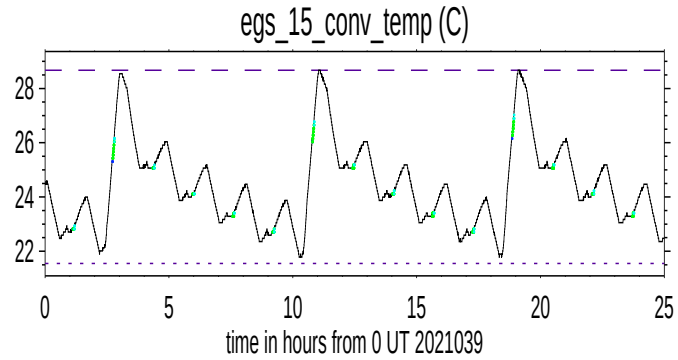
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021039


egs_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2021039


egs_lamp_temp (C)
20 19 18 17 16 15
0 5 10 15 20 25
time in hours from 0 UT 2021039


egs_slit_temp (C)
20 18 16
0 5 10 15 20 25
time in hours from 0 UT 2021039


egs_15_conv_temp (C)
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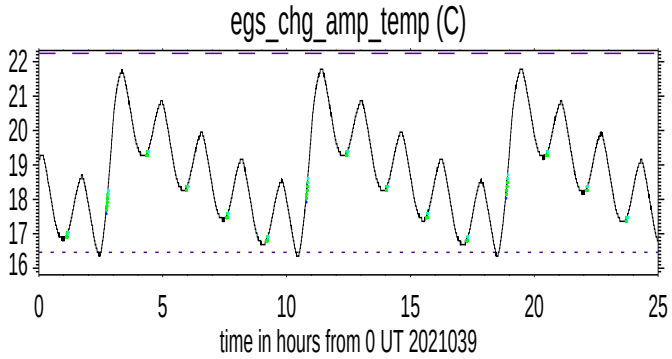
time in hours from 0 UT 2021039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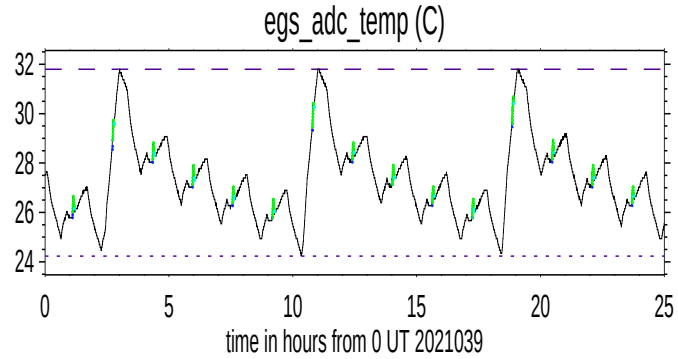
0 5 10 15 20 25
time in hours from 0 UT 2021039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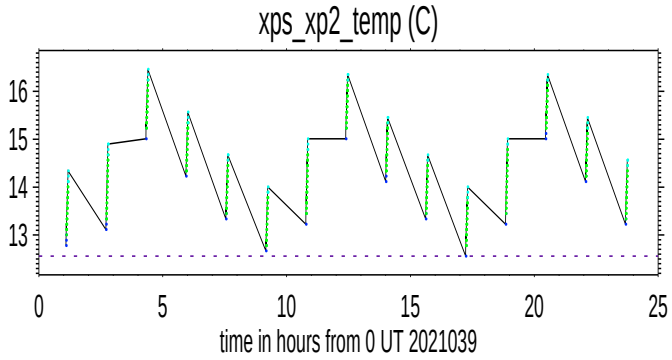
time in hours from 0 UT 2021039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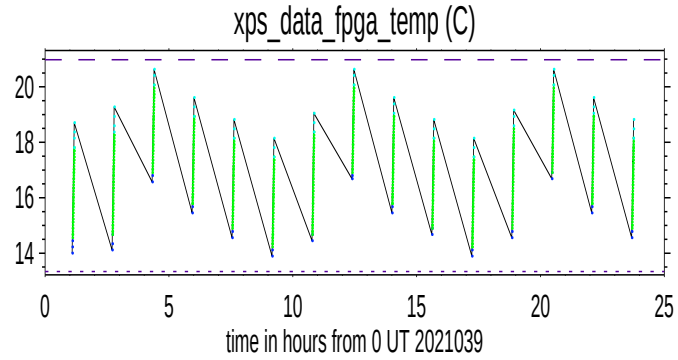
0 5 10 15 20 25
time in hours from 0 UT 2021039


xps_data_fpga_temp (C)
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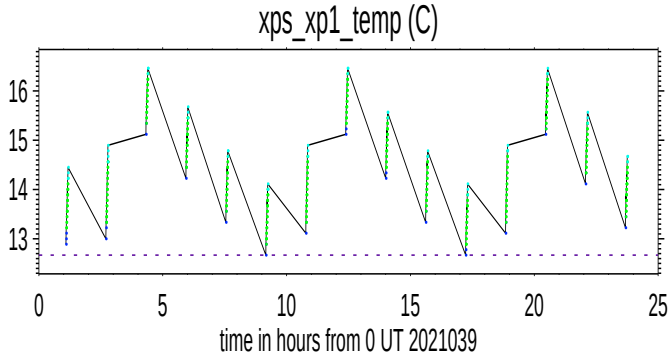
0 5 10 15 20 25
time in hours from 0 UT 2021039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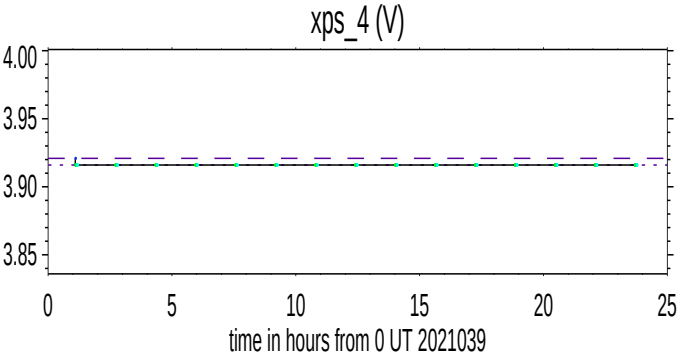
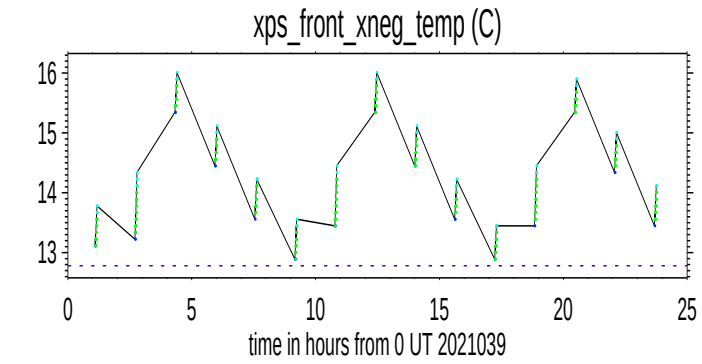
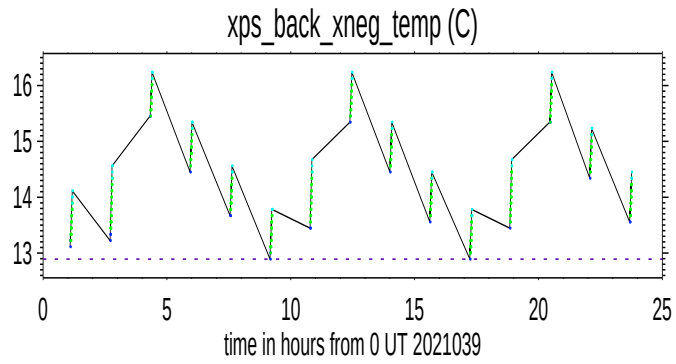
16 15 14 13
0 5 10 15 20 25
time in hours from 0 UT 2021039


xps_4 (V)
4.00 3.95 3.90 3.85
0 5 10 15 20 25
time in hours from 0 UT 2021039


xps_front_xneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021039


xps_back_xneg_temp (C)
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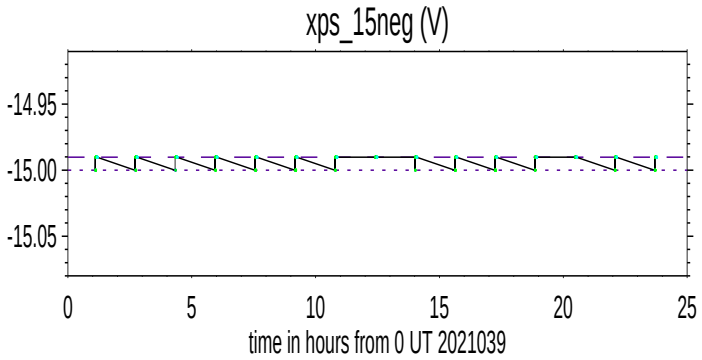
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021039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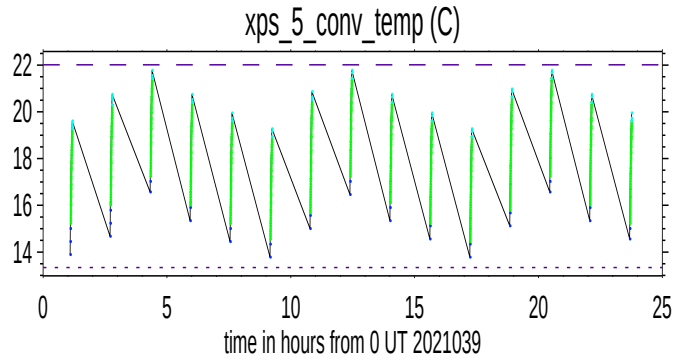
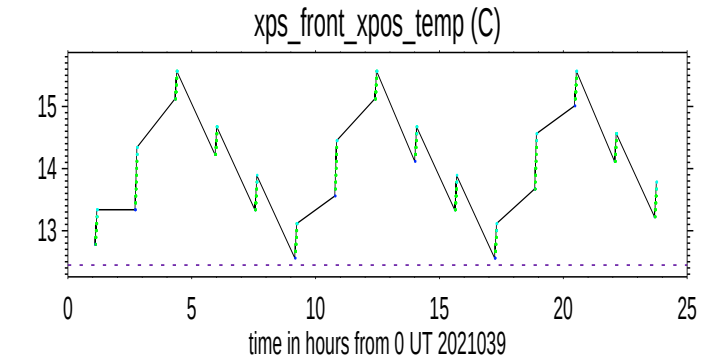
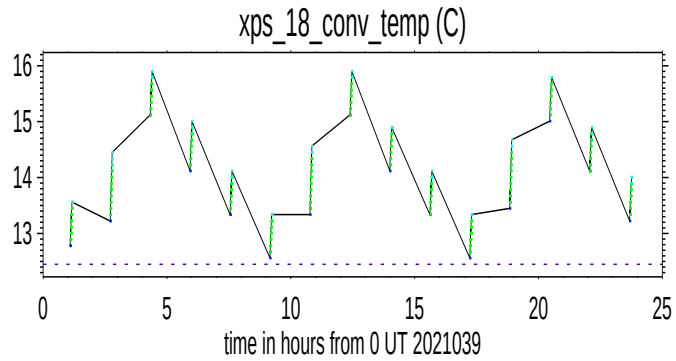
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2021039


xps_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039


xps_front_xpos_temp (C)
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021039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10
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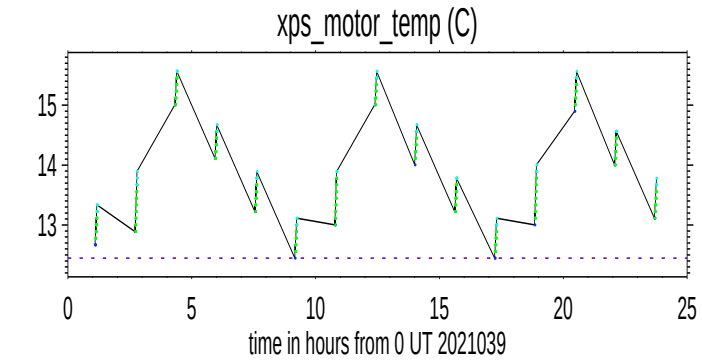
25
time in hours from 0 UT 2021039


xps_motor_temp (C)
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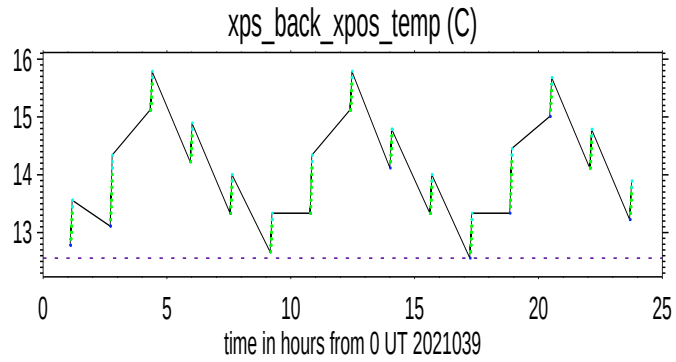
10
15
20
25
time in hours from 0 UT 2021039


xps_back_xpos_temp (C)
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13
0
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10
15
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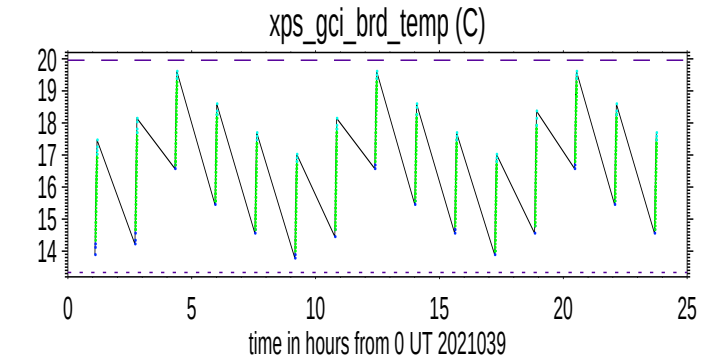
25
time in hours from 0 UT 2021039


xps_gci_brd_temp (C)
20
19
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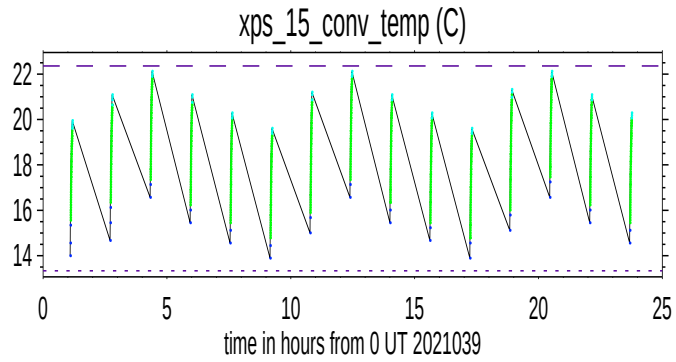
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039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20
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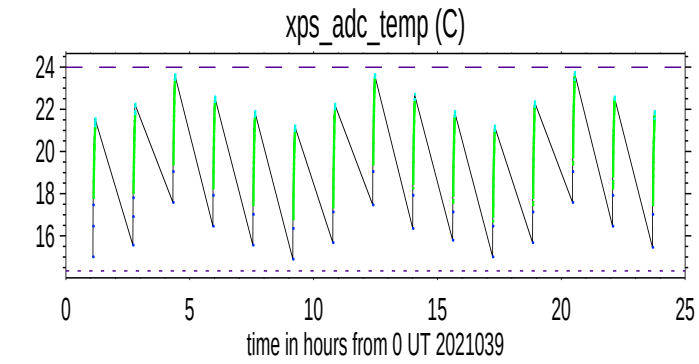
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039


xps_adc_temp (C)
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16
0
5
10
15
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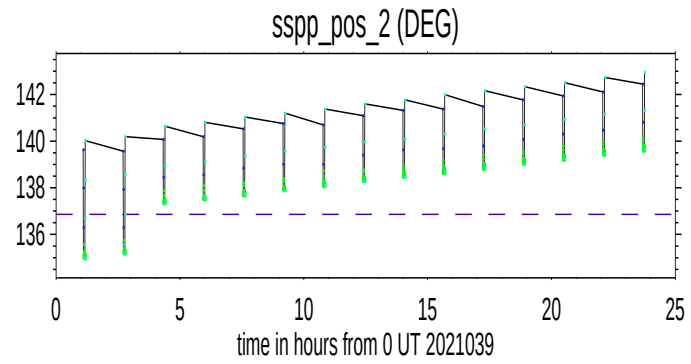
25
time in hours from 0 UT 2021039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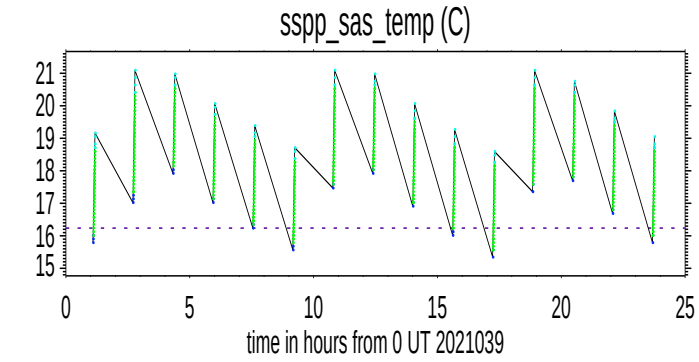
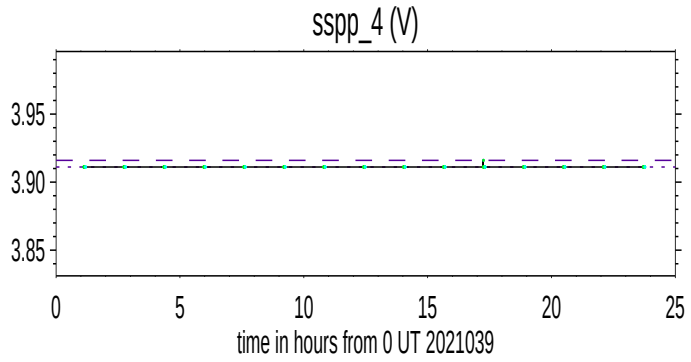
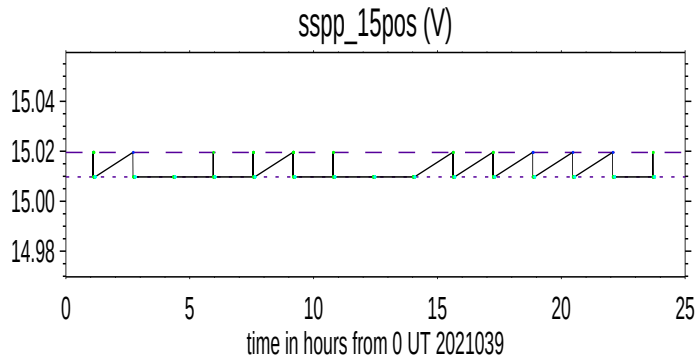
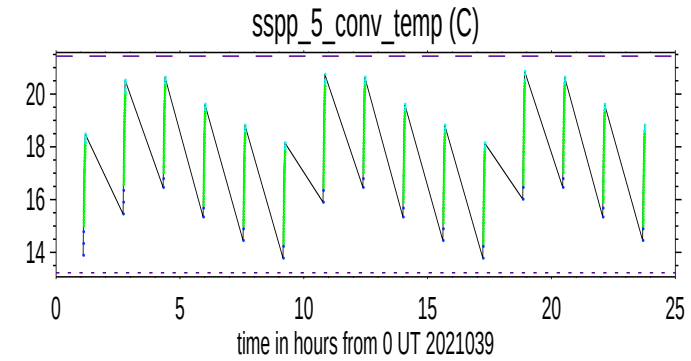
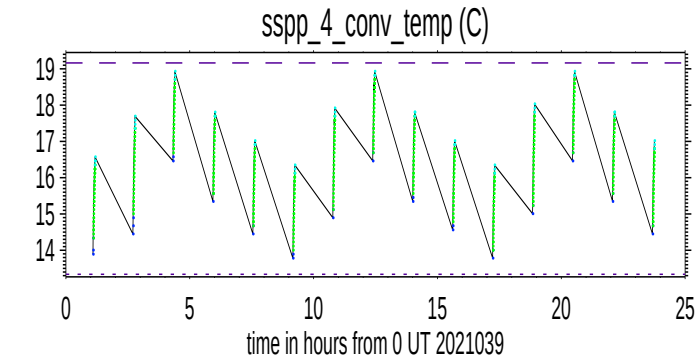
140
138
136
0
5
10
15
20
25
time in hours from 0 UT 2021039

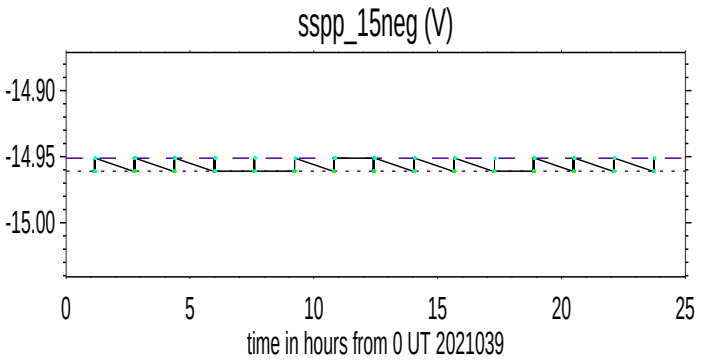

sspp_sas_temp (C)
21
20
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2021039

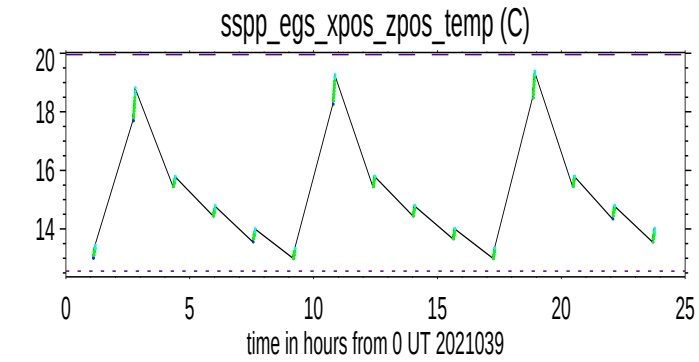

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021039

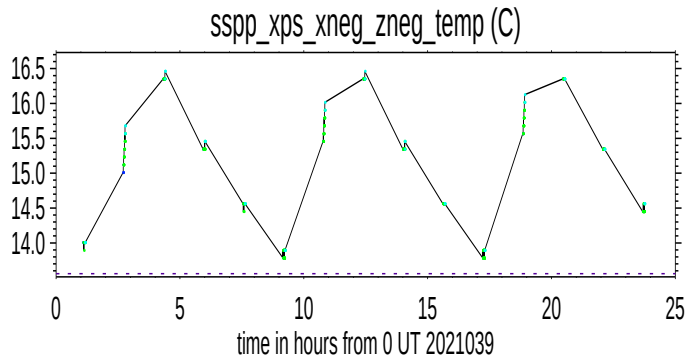

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021039

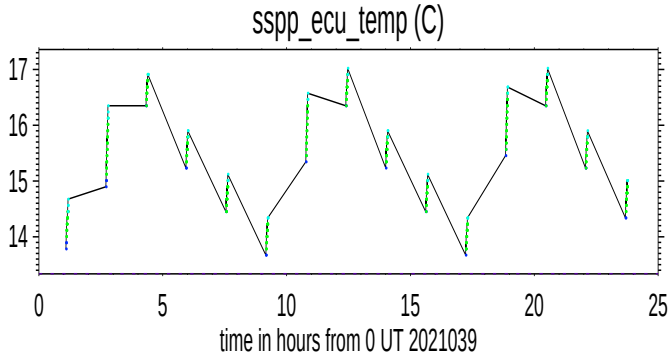

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

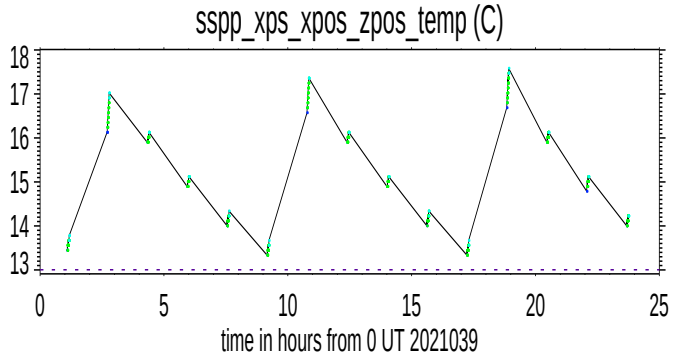

sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

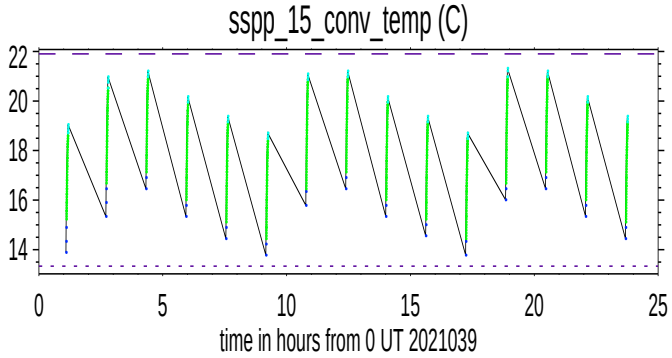

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021039

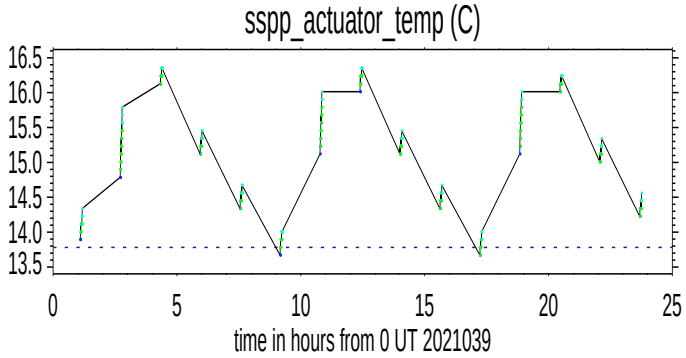

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

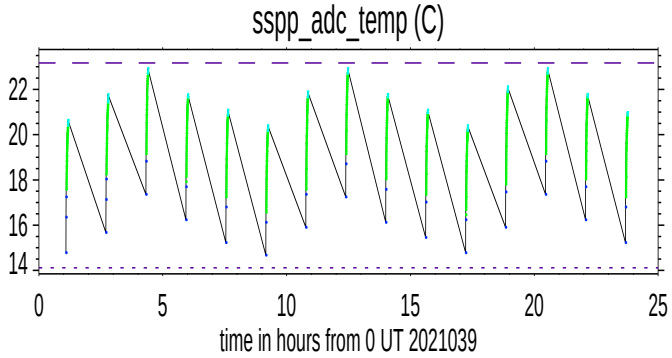

sspp_xps_xneg_zneg_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_ecu_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_xps_xpos_zpos_temp (C)
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_actuator_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2021039


sspp_adc_temp (C)
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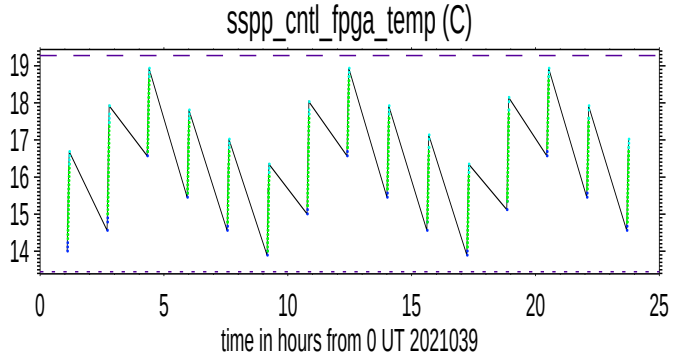
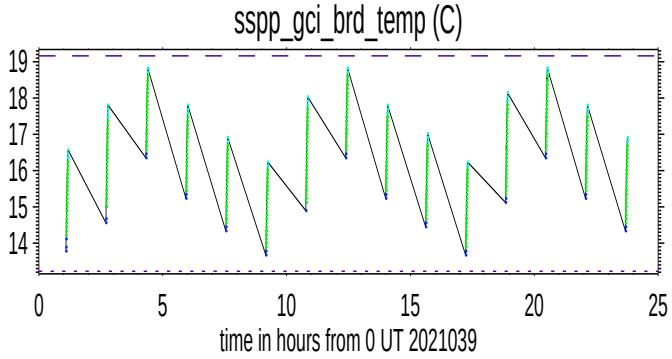
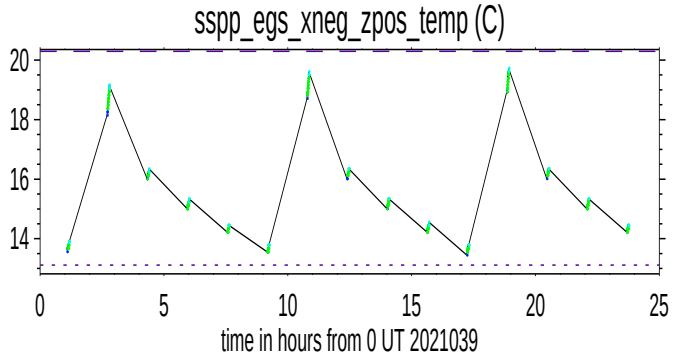
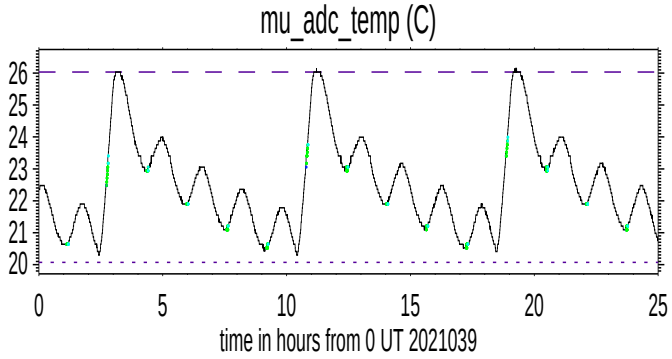
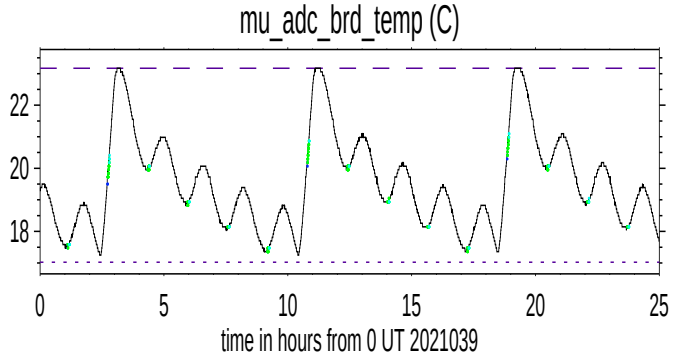
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

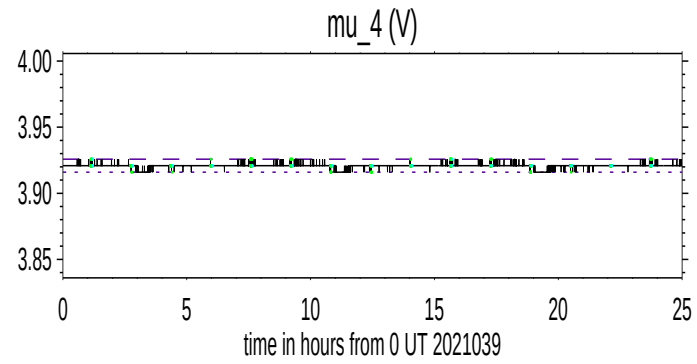

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

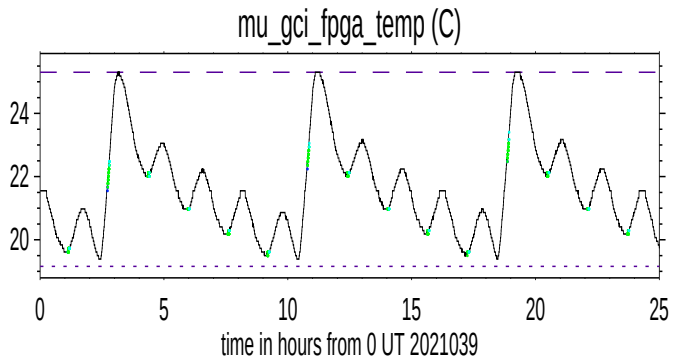

sspp_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

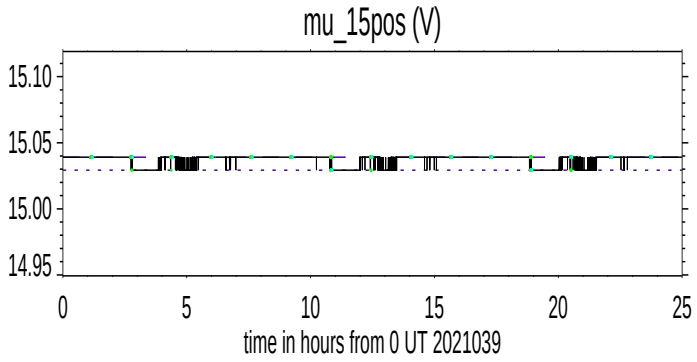

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021039

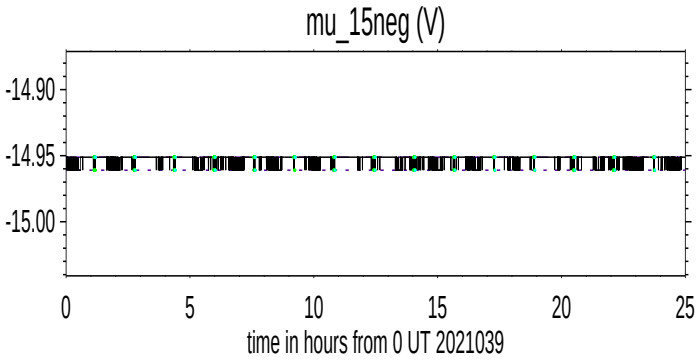

mu_adc_temp (C)
26
25
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021039

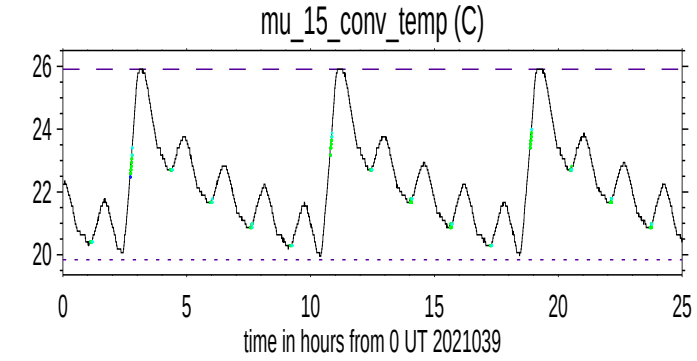

mu_adc_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021039

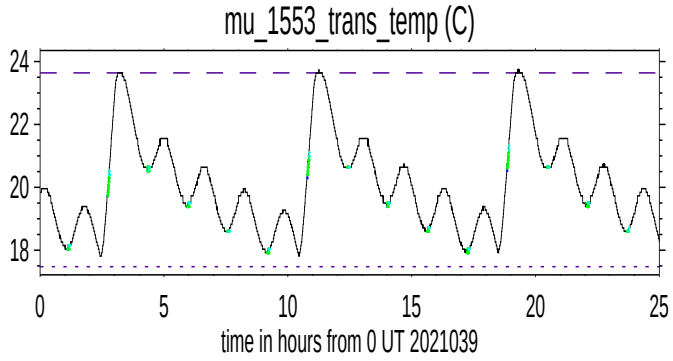

mu_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2021039

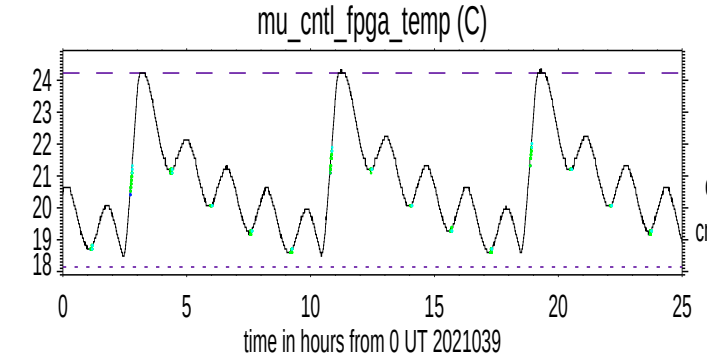

mu_gci_fpga_temp (C)
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2021039

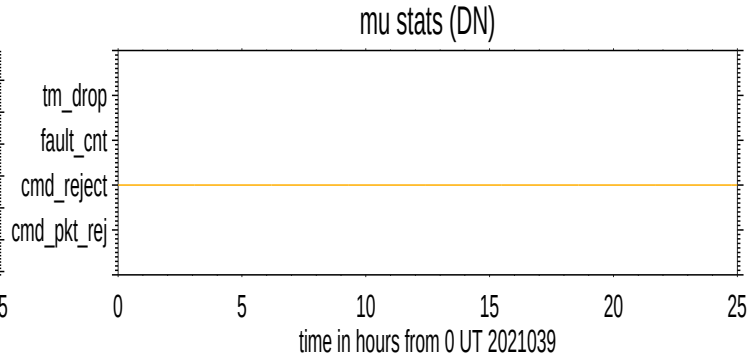

mu_15pos (V)
15.10
15.05
15.00
14.95
0 5 10 15 20 25
time in hours from 0 UT 2021039

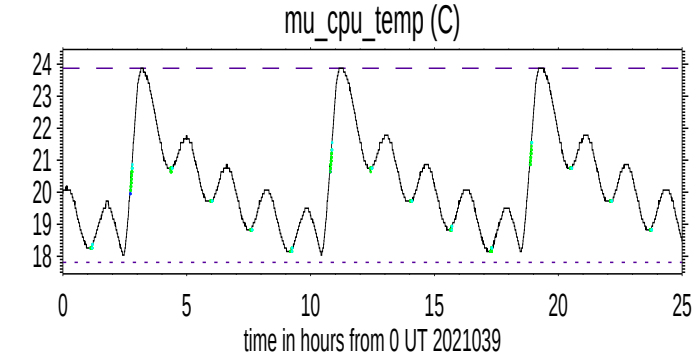

mu_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2021039

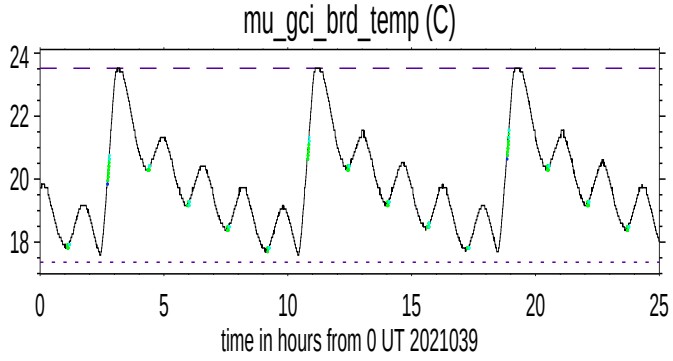

mu_15_conv_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2021039

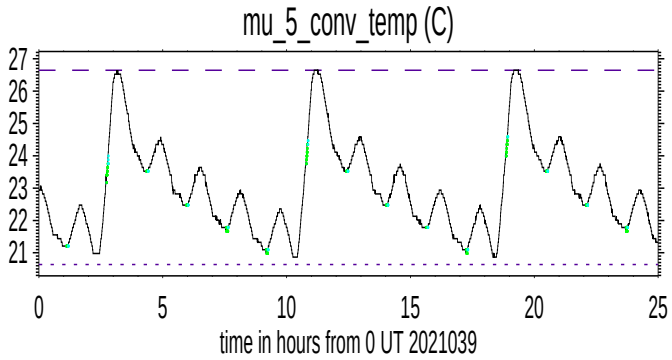

mu_1553_trans_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021039

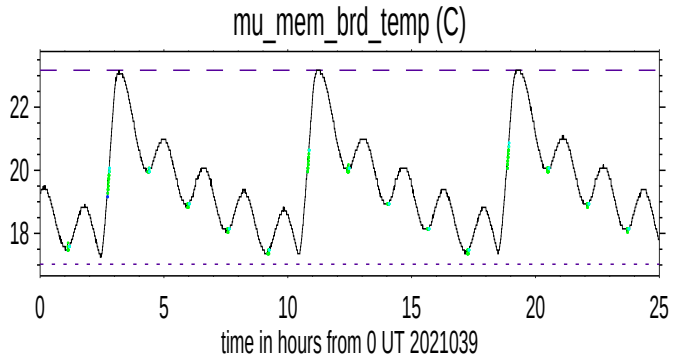

mu_cntl_fpga_temp (C)
24
23
22
21
20
19
18
0 5 10 15 20 25
time in hours from 0 UT 2021039

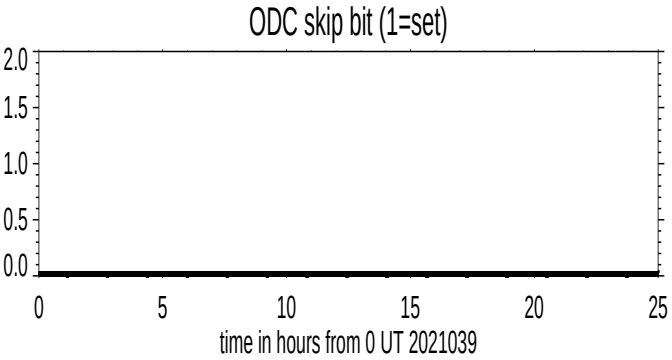

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0 5 10 15 20 25
time in hours from 0 UT 2021039

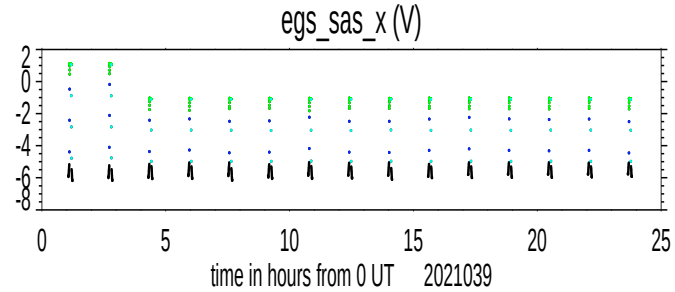

mu_cpu_temp (C)
24
23
22
21
20
19
18
0 5 10 15 20 25
time in hours from 0 UT 2021039

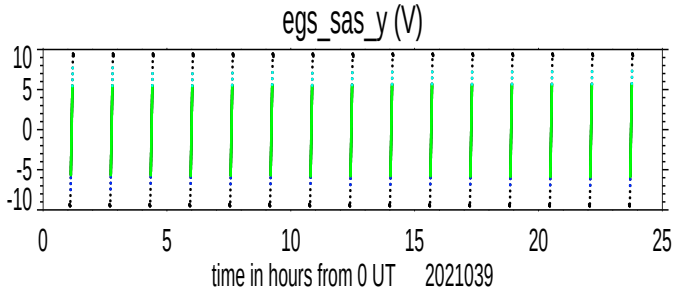

mu_gci_brd_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021039

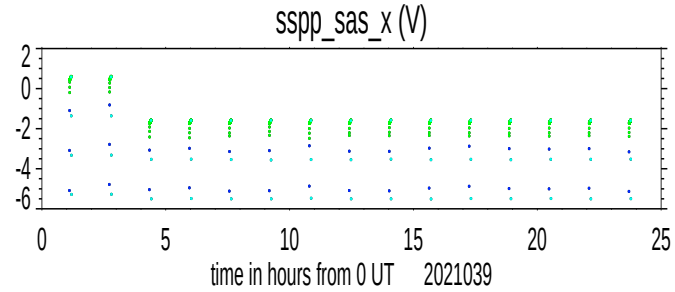

mu_5_conv_temp (C)
27
26
25
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2021039

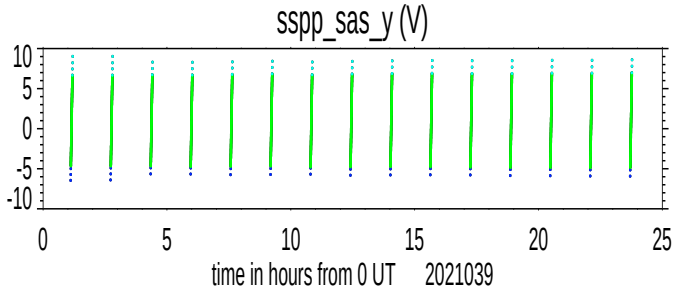

mu_mem_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021039

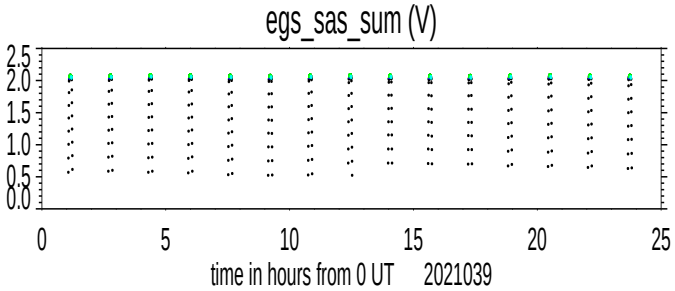

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021039

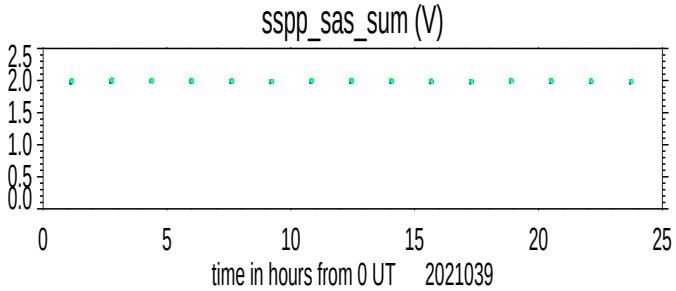

egs_sas_x (V)
time in hours from 0 UT 2021039

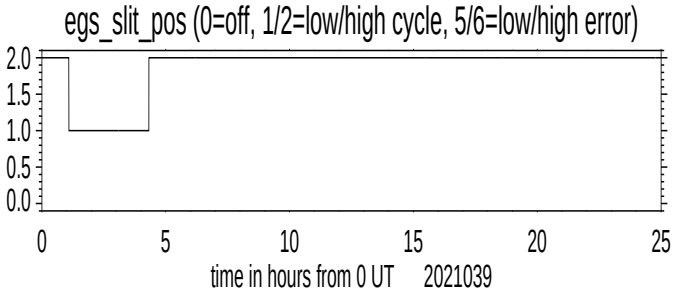

egs_sas_y (V)
time in hours from 0 UT 2021039

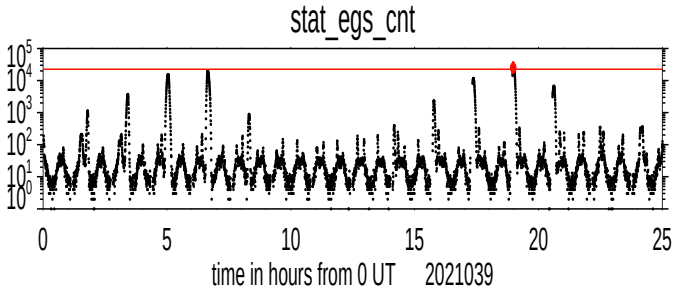

sspp_sas_x (V)
time in hours from 0 UT 2021039

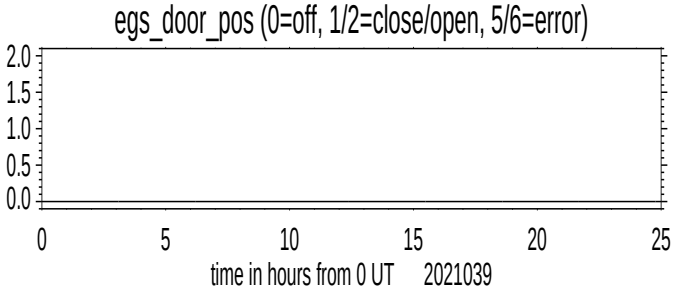

sspp_sas_y (V)
time in hours from 0 UT 2021039

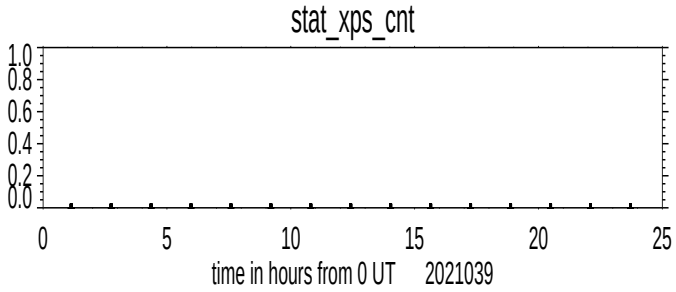

egs_sas_sum (V)
time in hours from 0 UT 2021039

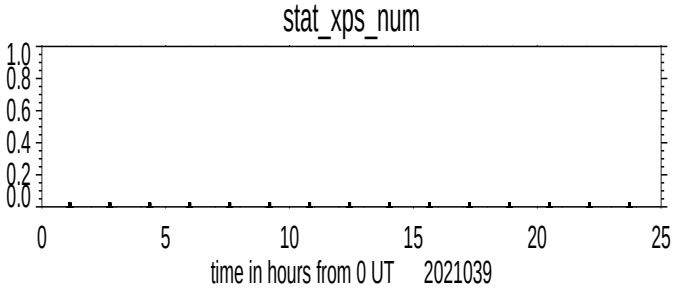

sspp_sas_sum (V)
time in hours from 0 UT 2021039

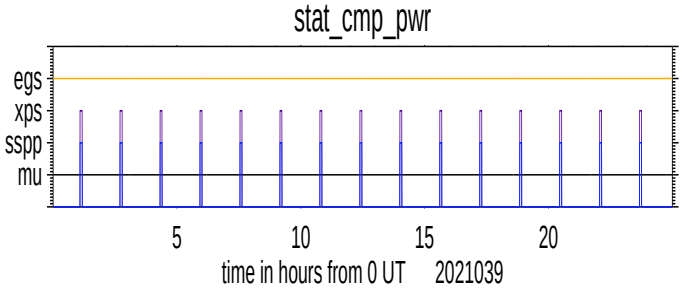

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021039


stat_egs_cnt
time in hours from 0 UT 2021039

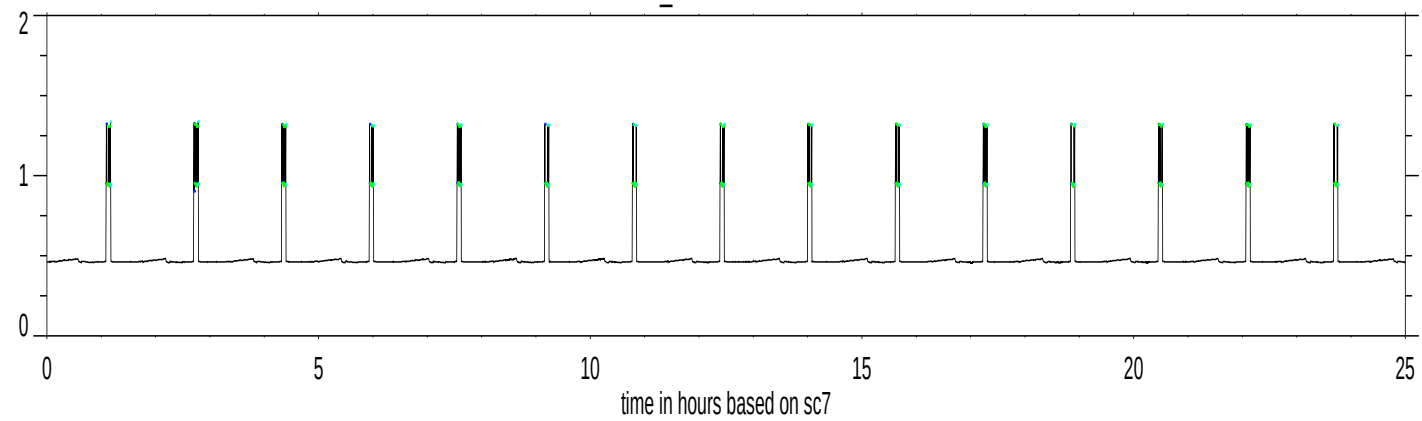

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021039


stat_xps_cnt
time in hours from 0 UT 2021039

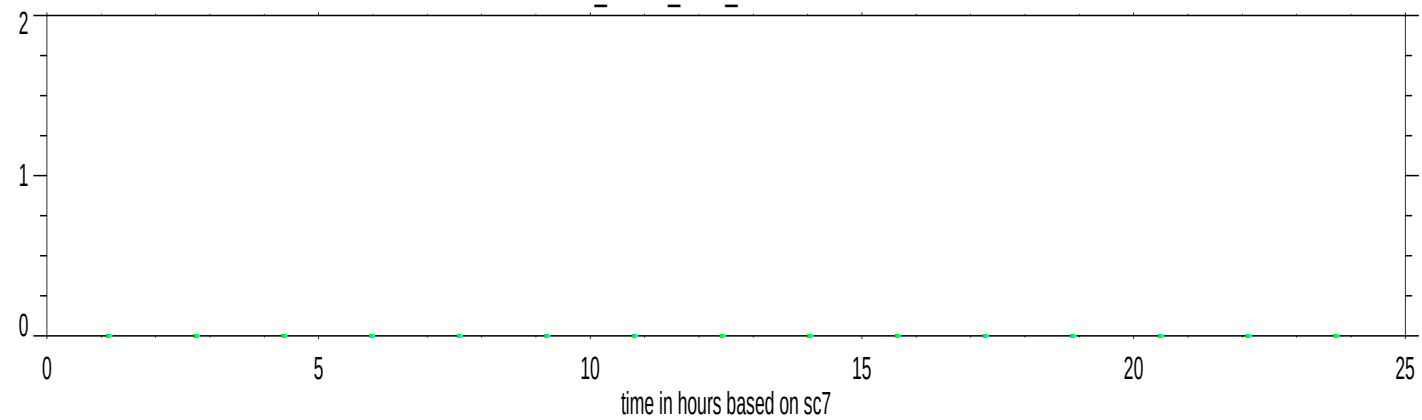

stat_xps_num
time in hours from 0 UT 2021039


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021039

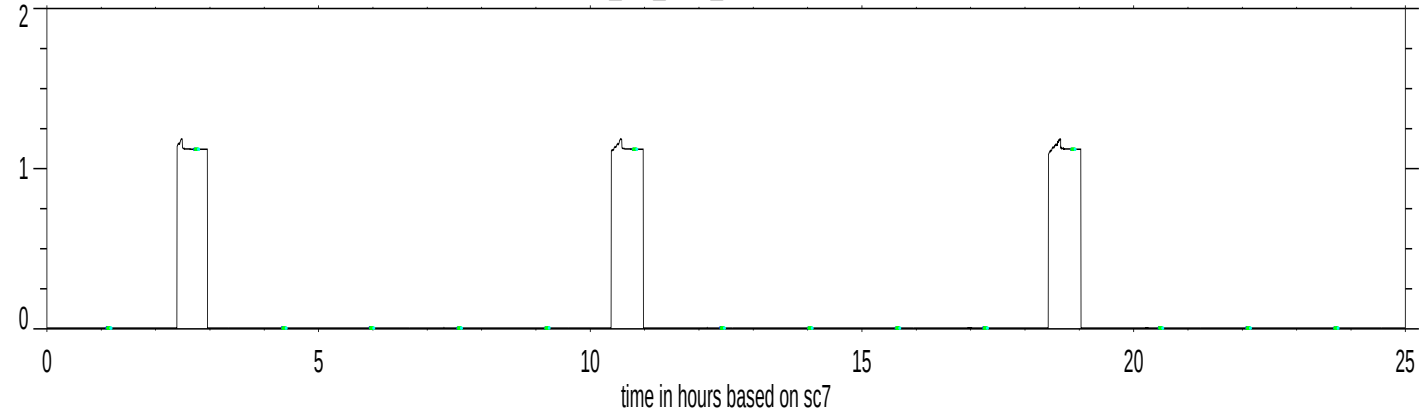
SEE_CUR 2021039



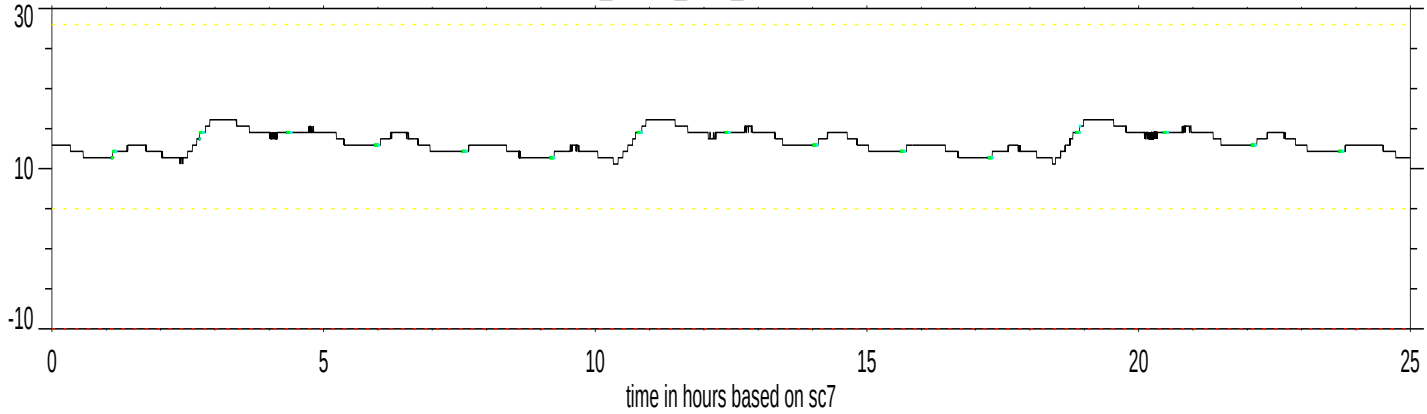
SEE_SURV_HTR_CUR 2021039



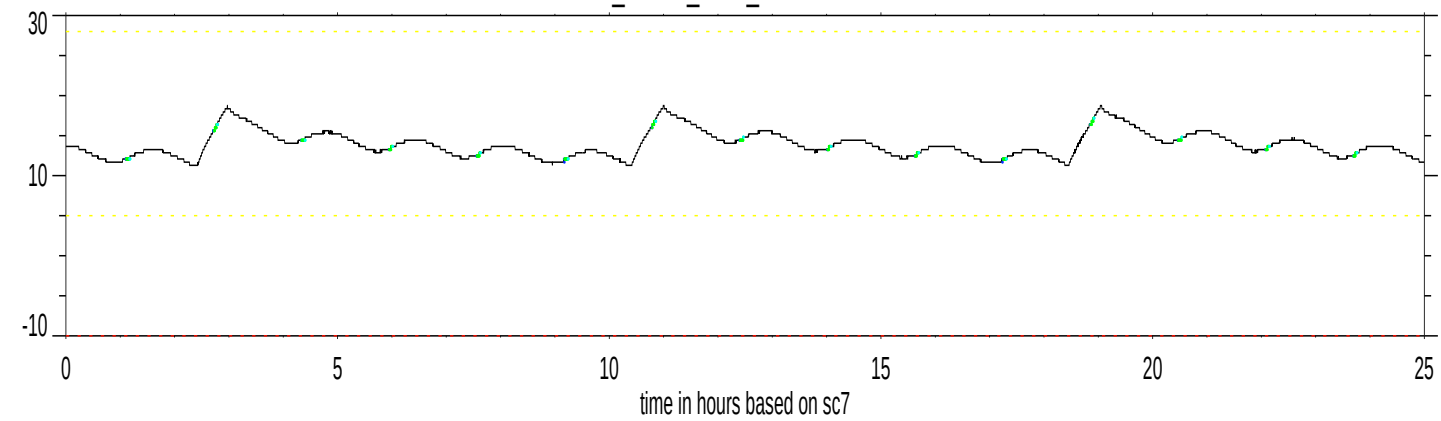
SEE_OP_HTR_CUR 2021039



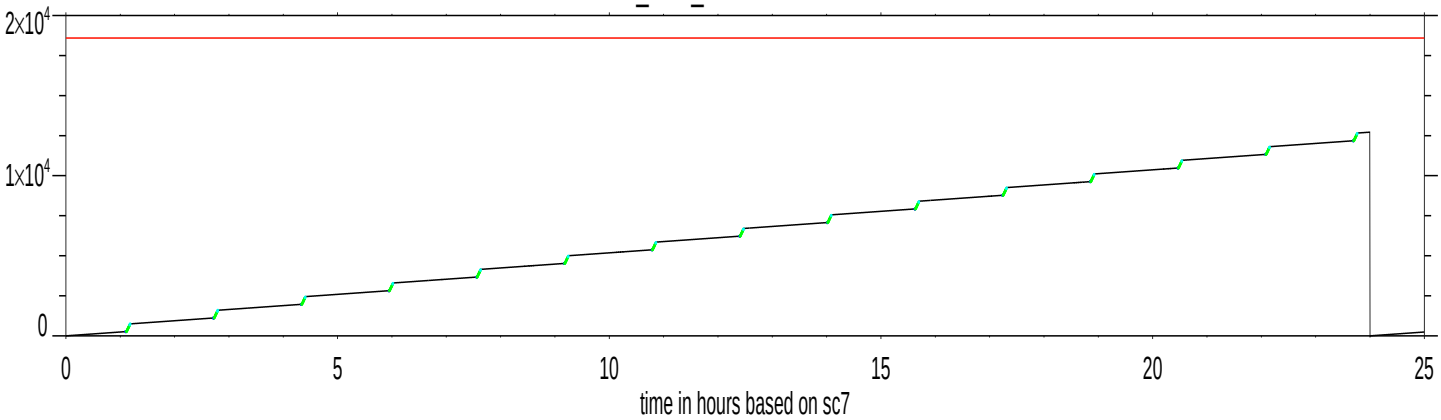
SSPP_BHND_XPS_TEMP 2021039



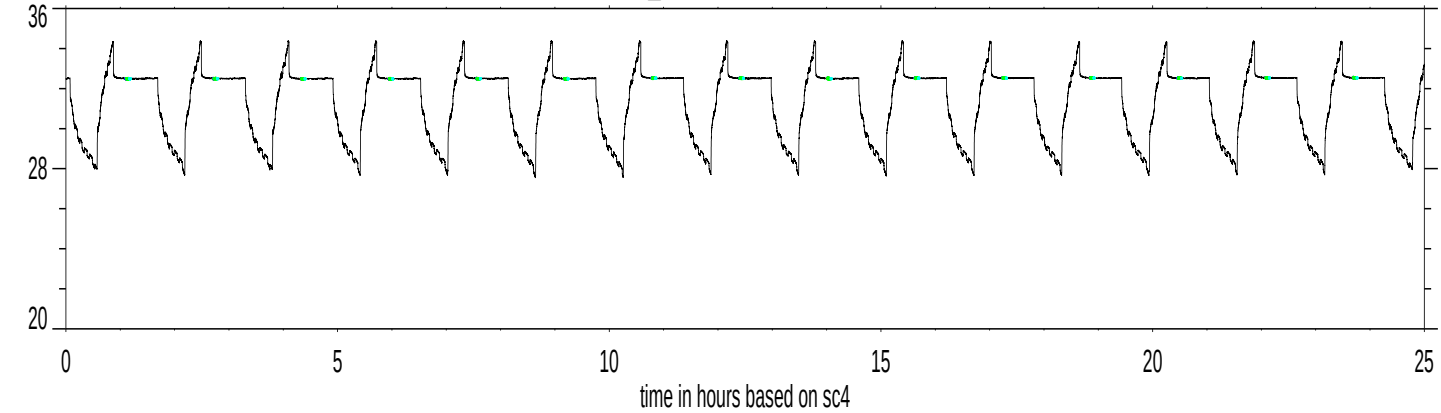
SSPP_BHND_MTR_TEMP 2021039



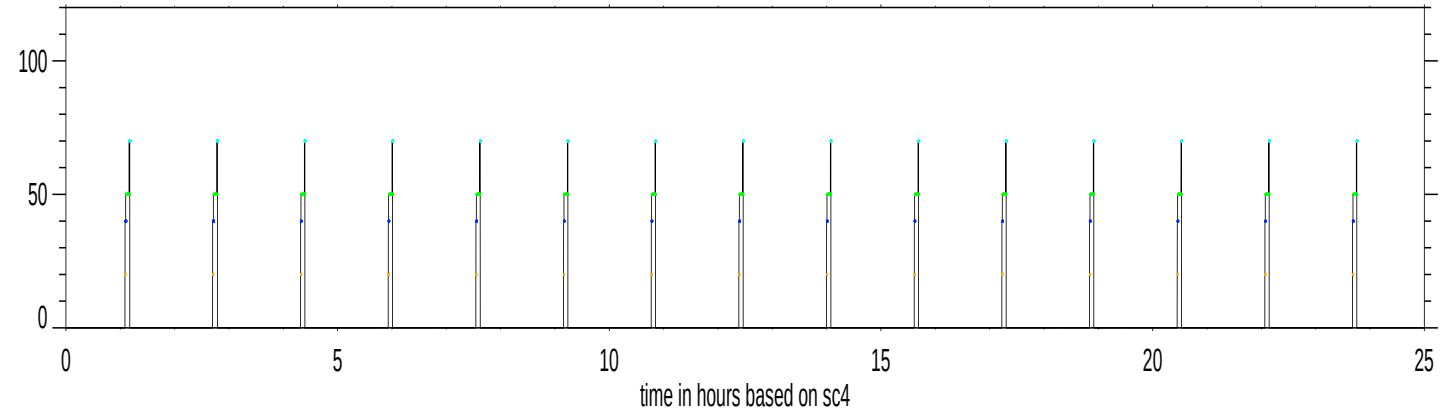
SEE_PKT_COUNT 2021039

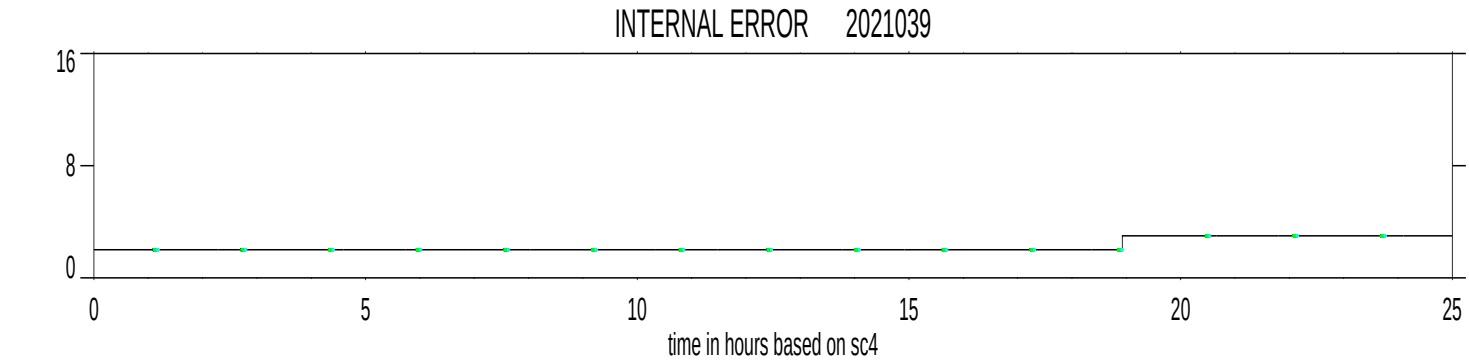


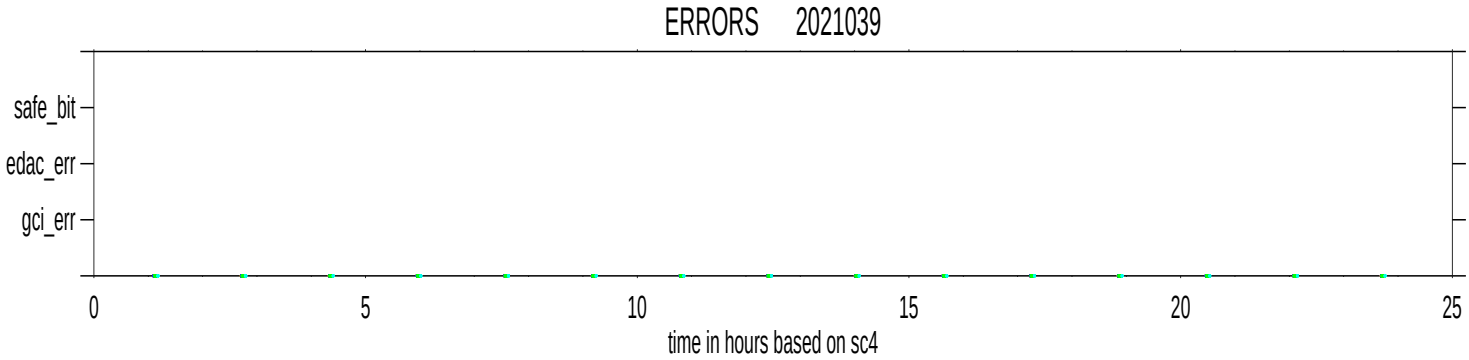
BUS_VOLTAGE 2021039

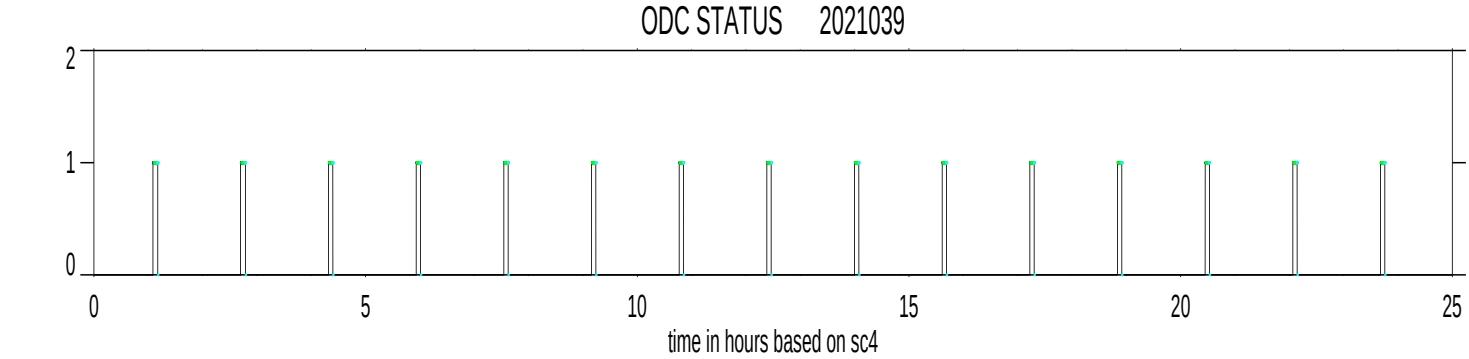


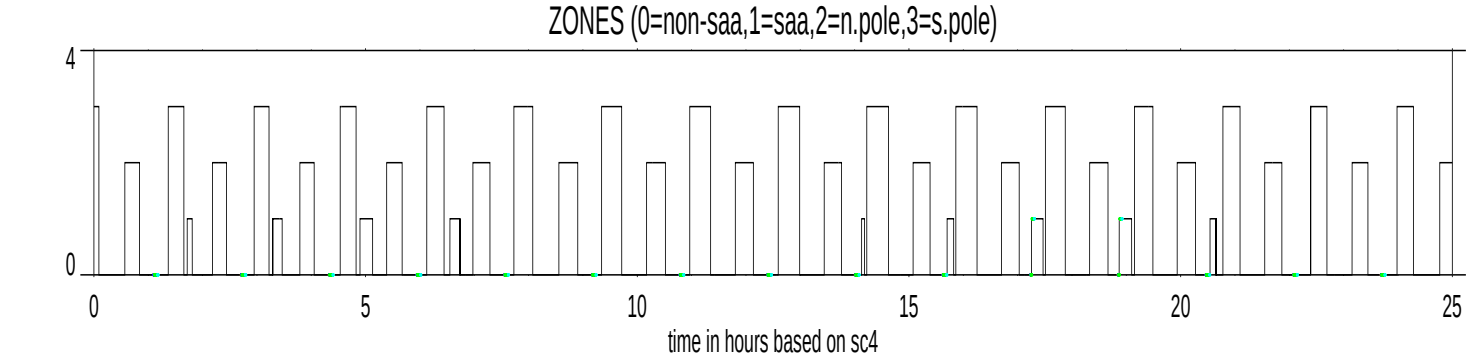
SEE_MU Operational Mode 2021039

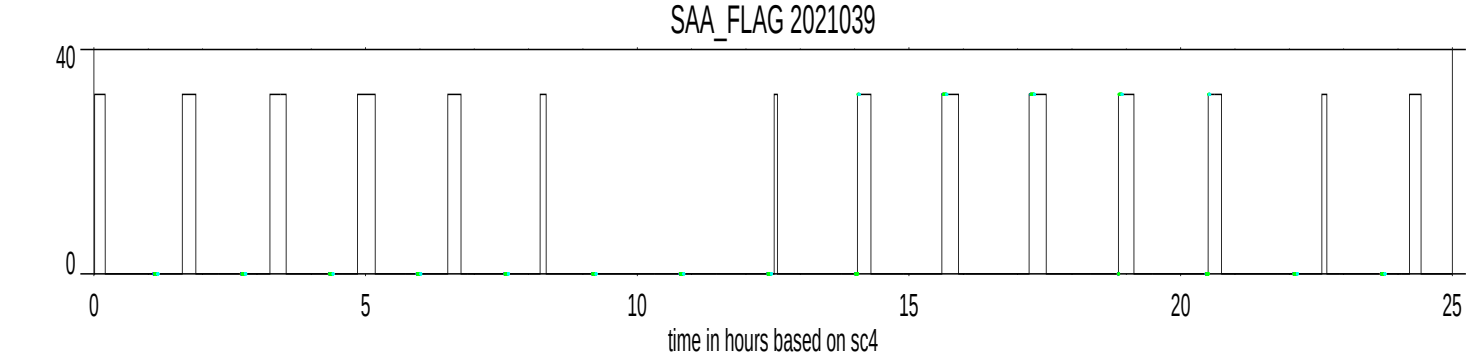


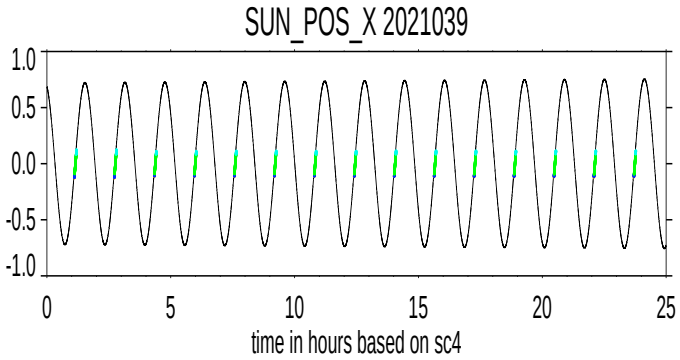

INTERNAL ERROR 2021039
16
8
0
0
5
10
15
20
25
time in hours based on sc4

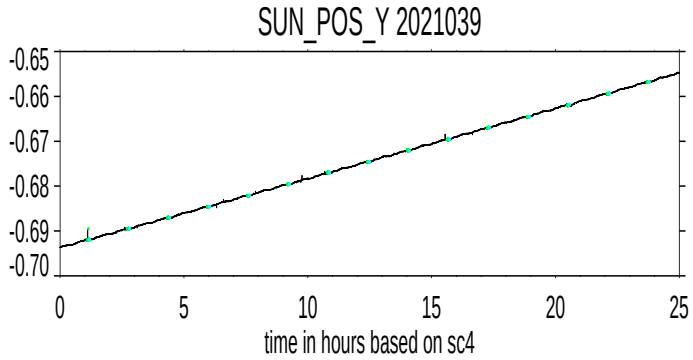

ERRORS 2021039
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

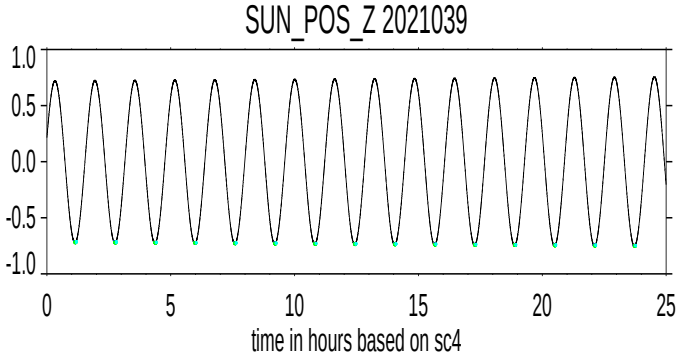

ODC STATUS 2021039
2
1
0
0
5
10
15
20
25
time in hours based on sc4

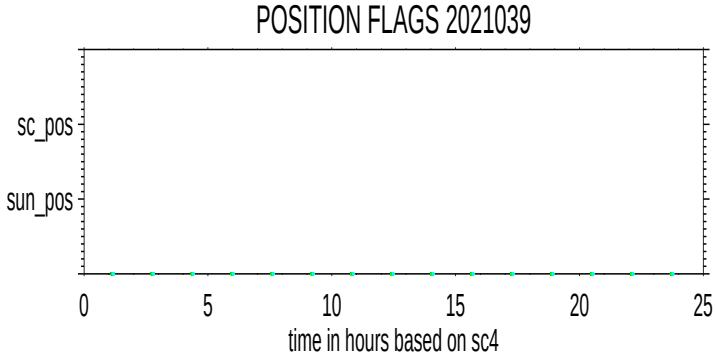

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

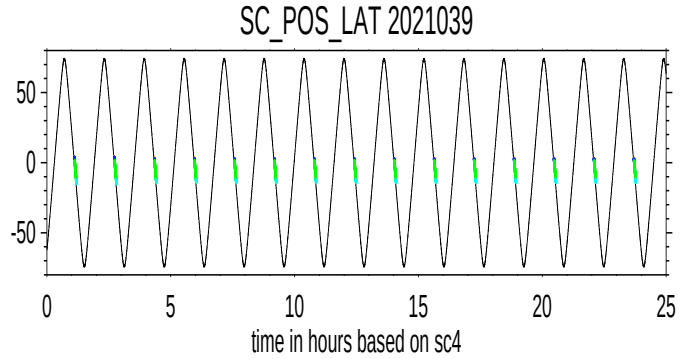

SAA_FLAG 2021039
40
0
0
5
10
15
20
25
time in hours based on sc4

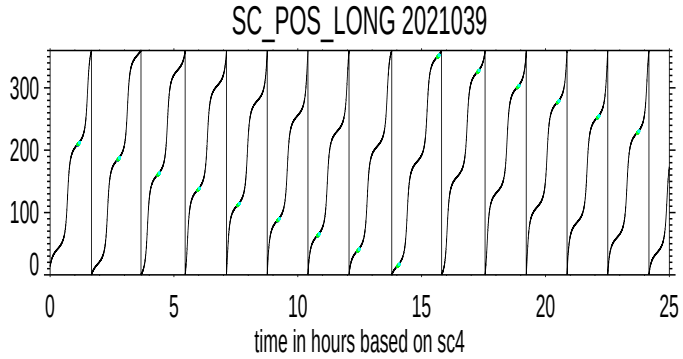

SUN_POS_X 2021039
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

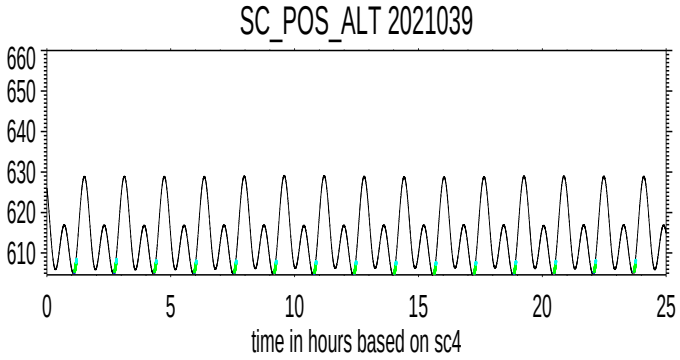

SUN_POS_Y 2021039
-0.65
-0.66
-0.67
-0.68
-0.69
-0.70
0
5
10
15
20
25
time in hours based on sc4

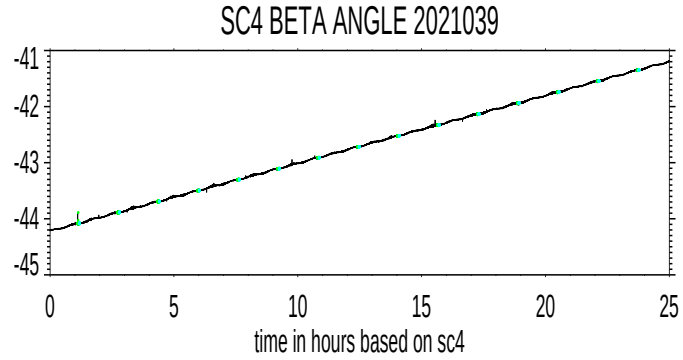

SUN_POS_Z 2021039
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021039
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021039
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021039
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021039
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021039
-41
-42
-43
-44
-45
0
5
10
15
20
25
time in hours based on sc4