

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6465 - L2 Version 3
Chandra X-Ray Center

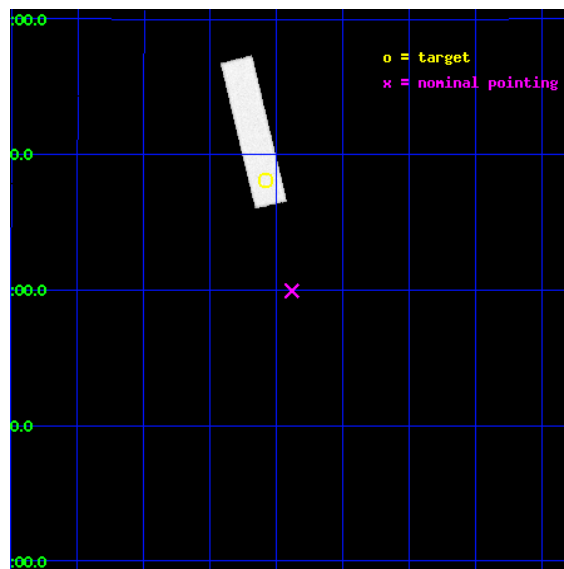
L2 Processing Date : Aug 11 2012

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1 Front

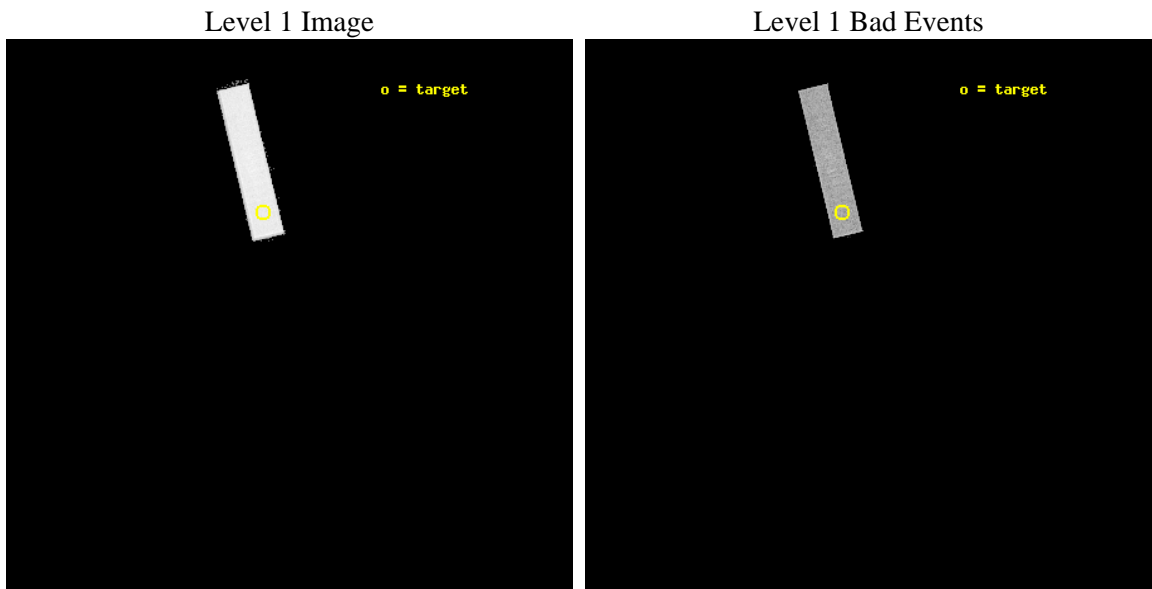
| | | |
|----------|--|---------------------------------------|
| seq_num | 290558 | Sequence number |
| obs_id | 6465 | Observation id |
| title | AO7 Measurements of the optical/UV Transmission of the HRC and ACIS Filters. | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | Betelgeuse | Source name |
| ra_targ | 88.792917 | Observer's specified target RA [deg] |
| dec_targ | 7.407056 | Observer's specified target Dec [deg] |
| ra_nom | 88.691901500927 | Nominal RA [deg] |
| dec_nom | 6.9978205558909 | Nominal Dec [deg] |
| roll_nom | 256.31071321231 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 2186.5813519955 | [s] |
| livetime | 2171.9060898887 | Ontime multiplied by DTCOR |
| l2events | 104317 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2186.5813519955 | [s] |
| caldbver | 4.5.1.1 | | l1events | 227845 | Number of level 1 events |
| date | 2012-08-11T06:14:36 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

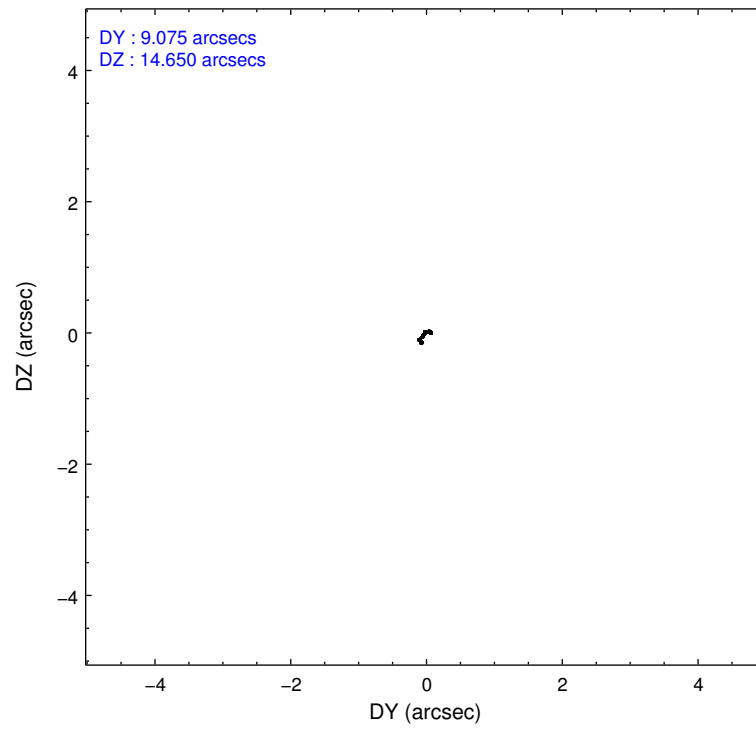
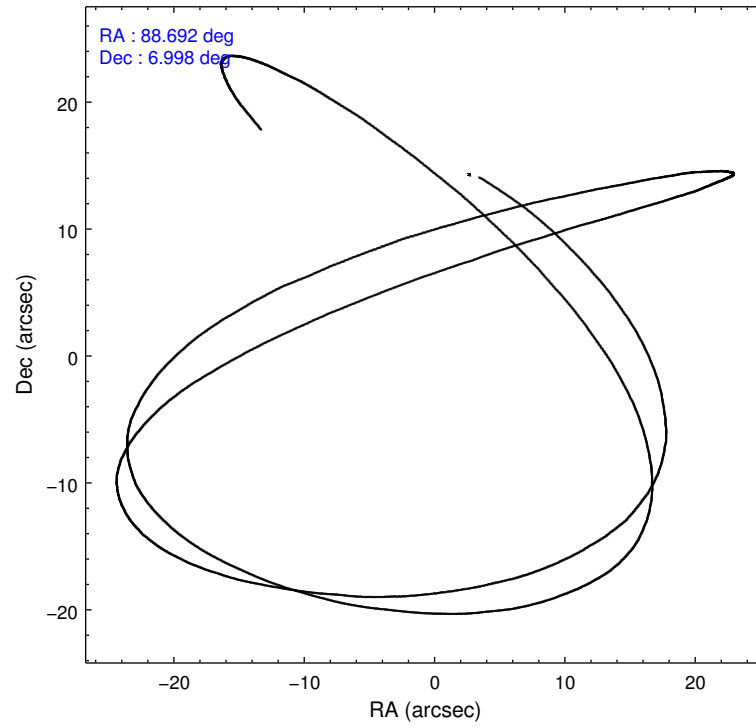
Level 1 Events

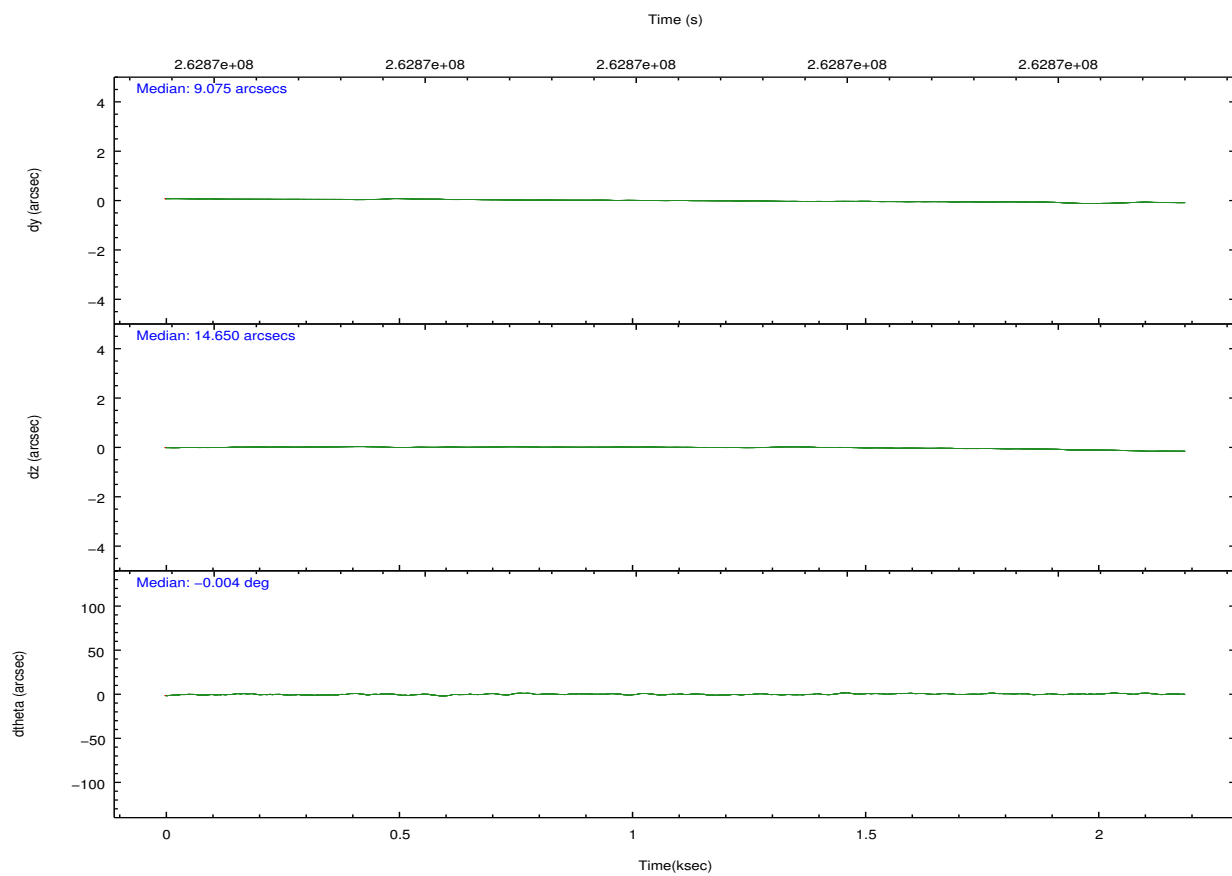
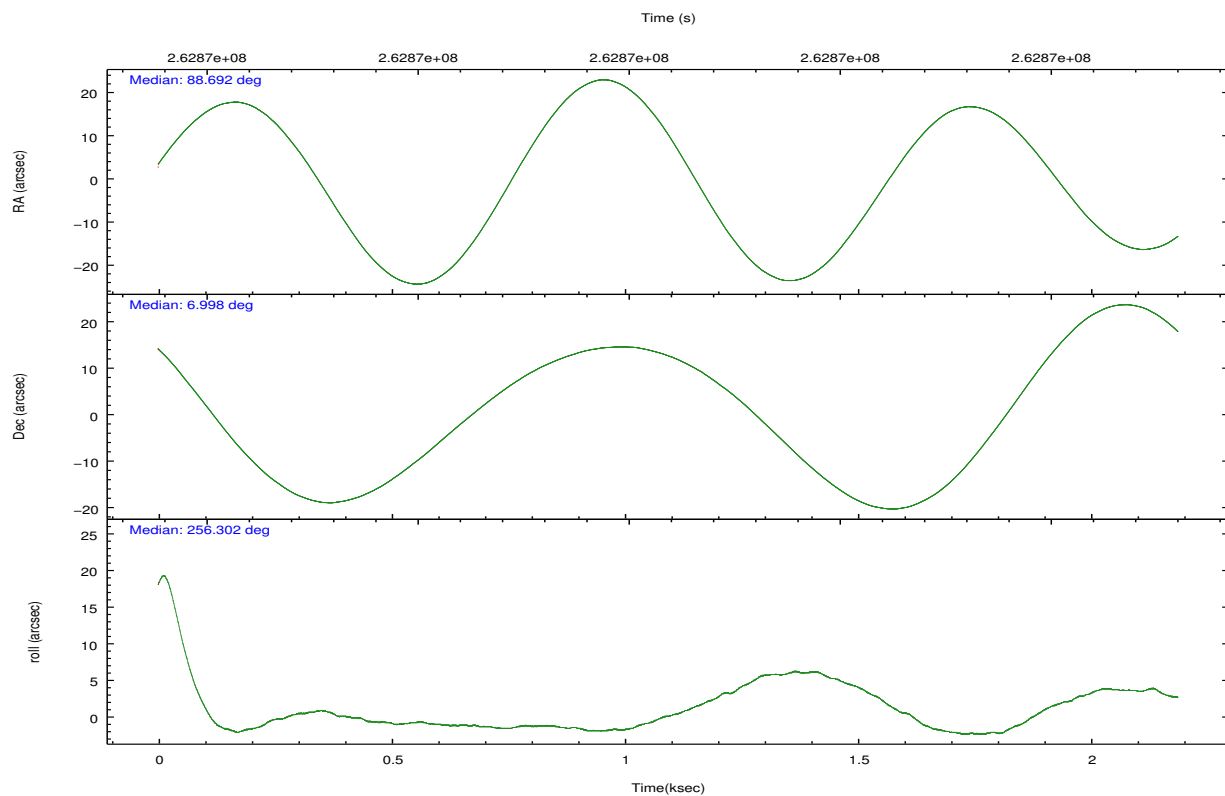
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 227786 | 59 | 0 |
| rejected events | 94274 | 28 | 0 |
| rejected % | 41% | 47% | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|-----------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-S | HRC-S | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 88.682301 | 88.69190150092692 | | | |
| [deg] Pointing Dec | 7.024858 | 6.997820555890876 | | | |
| [deg] Pointing Roll | 256.244467 | 256.3107132123093 | | | |
| [s] Window start time (MET) | 262828865.184000 | 262828865.184000 | | | |
| [s] Window stop time (MET) | 268012865.184000 | 268012865.184000 | | | |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 | | | |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 262866680.184000 | 262866115.8996 | | | |
| Observation start date | 2006-05-01T10:30:15 | 2006-05-01T10:21:55 | | | |
| [s] Observation end time (MET) | 262868680.184000 | 262869934.53728 | | | |
| Observation end date | 2006-05-01T11:03:35 | 2006-05-01T11:25:34 | | | |

2.3 Aspect



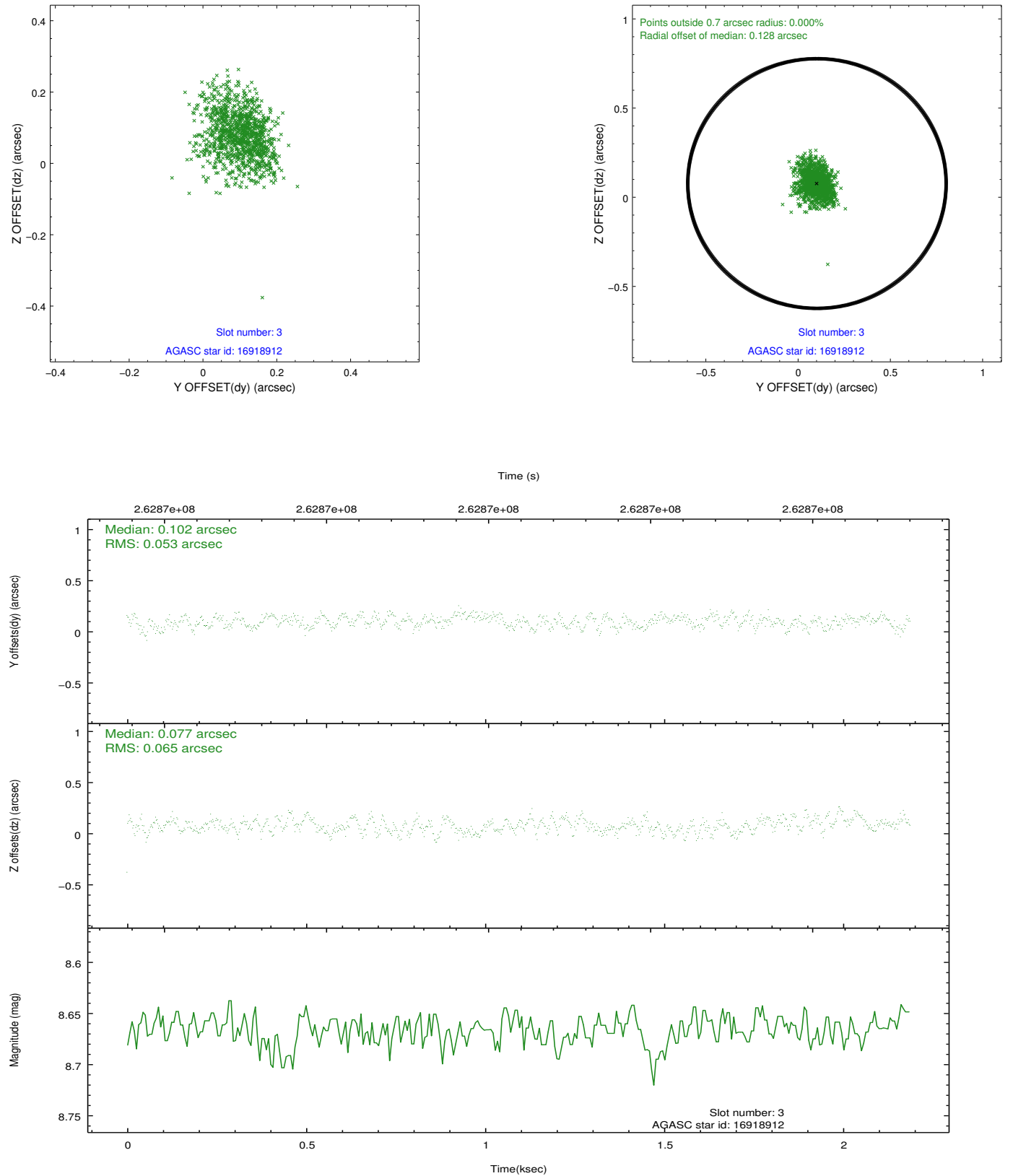


Slot Statistics

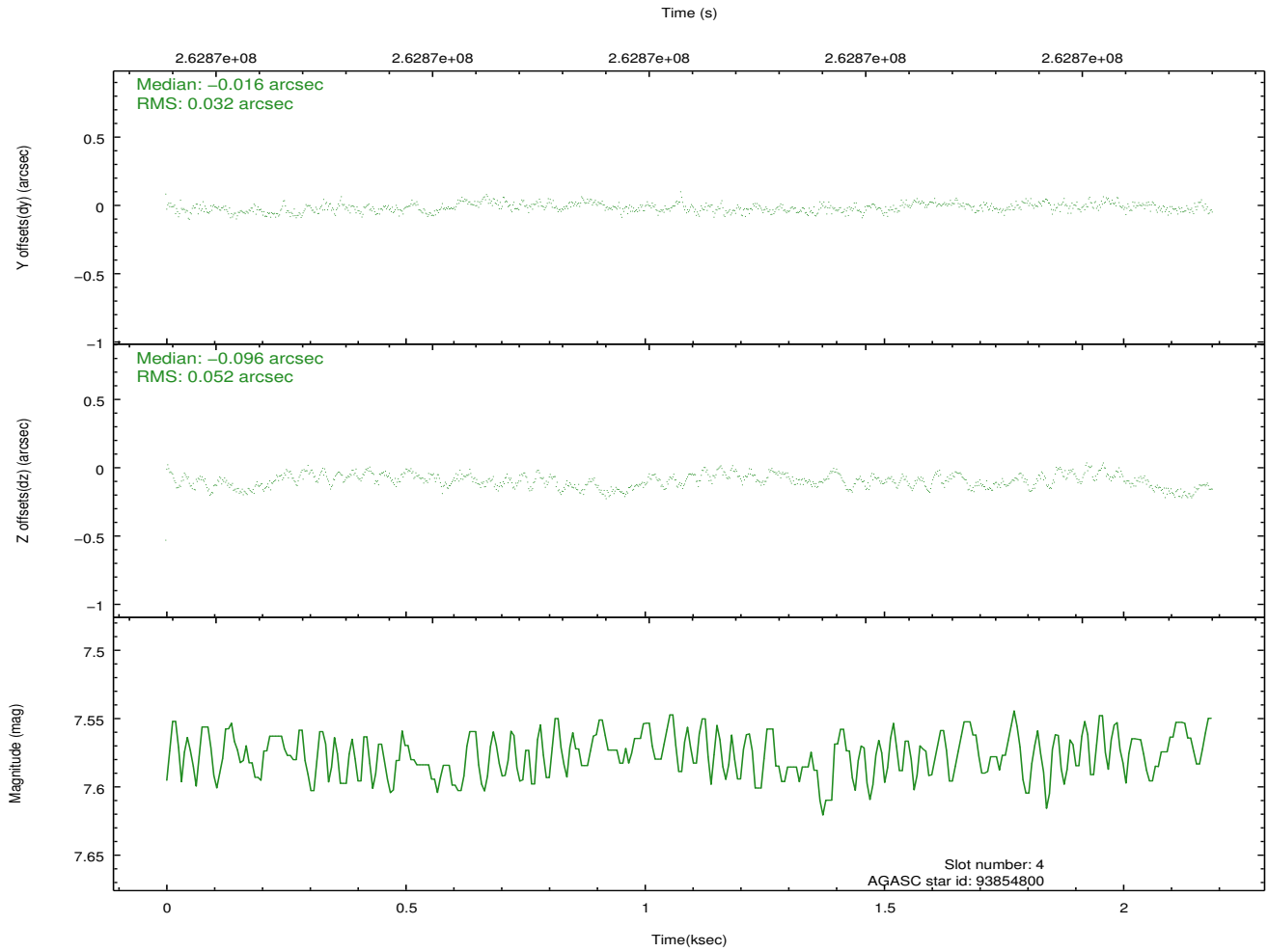
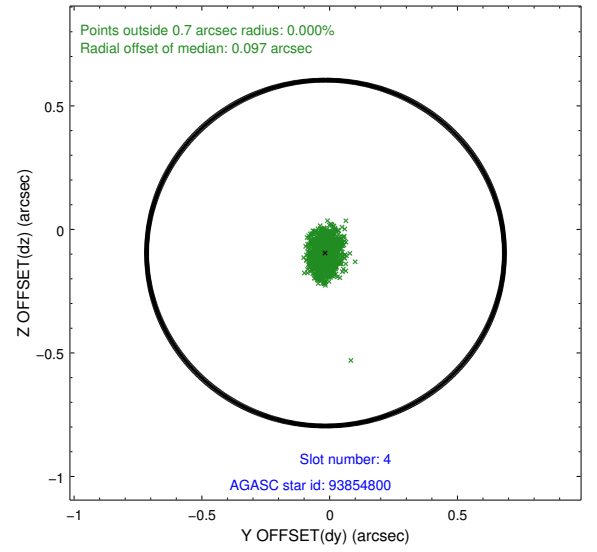
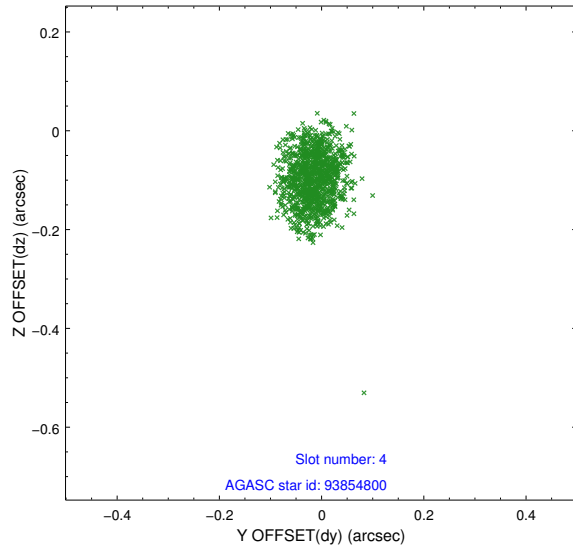
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|-----------|----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.07 | 534 | 0.147 | -0.213 | 0.008 | 0.012 | 0.000000 | 0.000000 | -1163.23 | -463.51 |
| 1 | FID | HRC-S-2 | 7.05 | 534 | 0.134 | -0.109 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1234.24 | -456.90 |
| 2 | FID | HRC-S-3 | 7.07 | 534 | 0.109 | 0.020 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1163.68 | 565.39 |
| 3 | GUIDE | 16918912 | 8.67 | 1067 | 0.102 | 0.077 | 0.090 | 0.145 | 89.257075 | 6.922287 | -130.91 | 2082.59 |
| 4 | GUIDE | 93854800 | 7.58 | 1068 | -0.016 | -0.096 | 0.065 | 0.100 | 88.376308 | 7.655454 | -1945.23 | -1598.86 |
| 5 | GUIDE | 93856056 | 7.97 | 1067 | -0.043 | -0.010 | 0.077 | 0.123 | 88.147460 | 7.547925 | -1377.60 | -2303.96 |
| 6 | GUIDE | 16779032 | 7.25 | 1068 | -0.003 | -0.038 | 0.058 | 0.091 | 88.070651 | 7.329382 | -547.57 | -2384.57 |
| 7 | GUIDE | 16917248 | 8.72 | 1067 | -0.039 | 0.074 | 0.098 | 0.154 | 89.306967 | 6.774731 | 341.58 | 2380.52 |

2.4 Star Slots

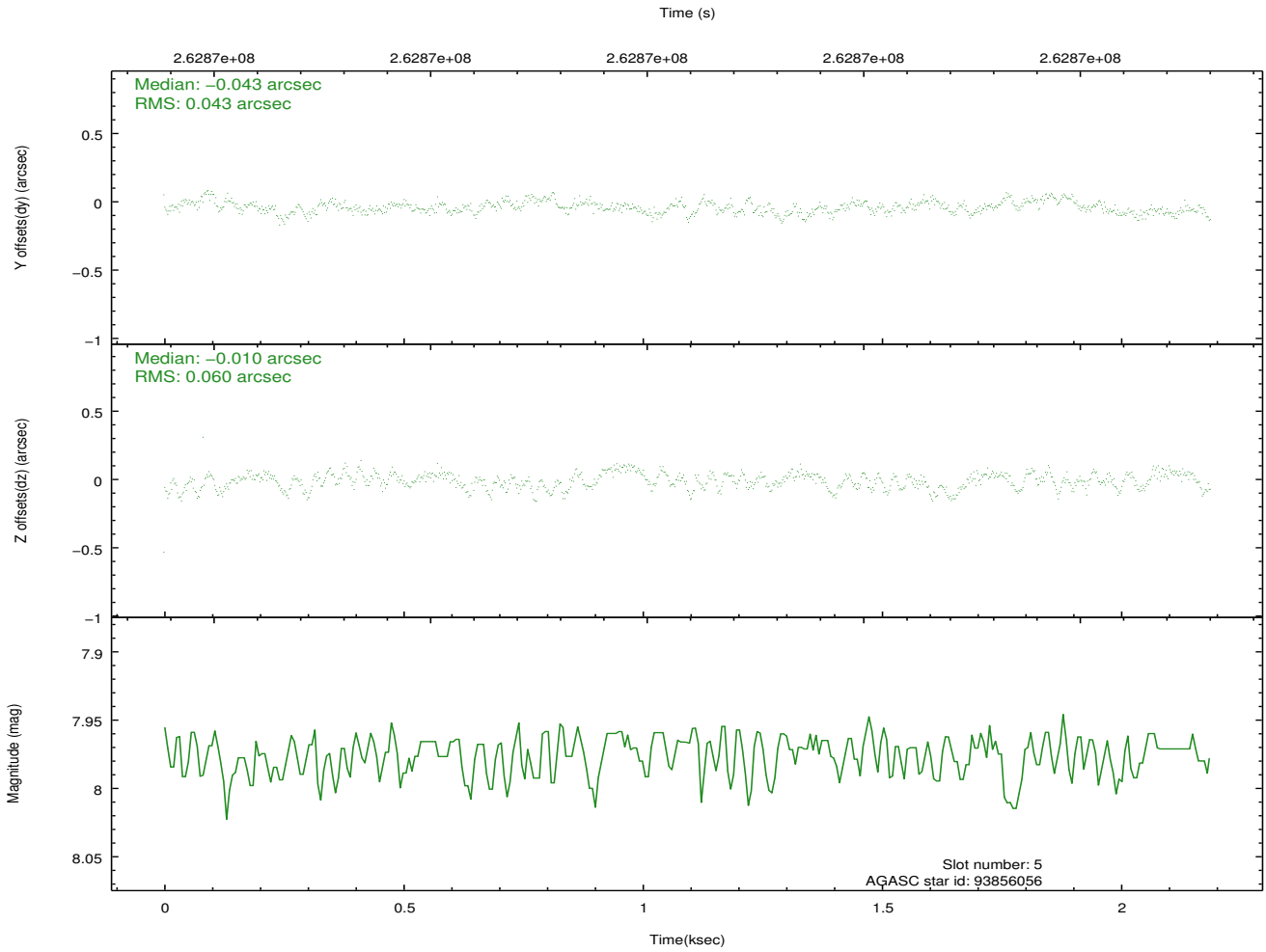
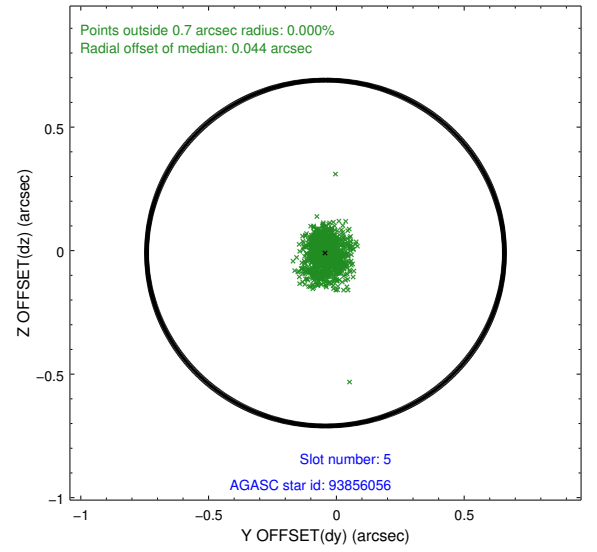
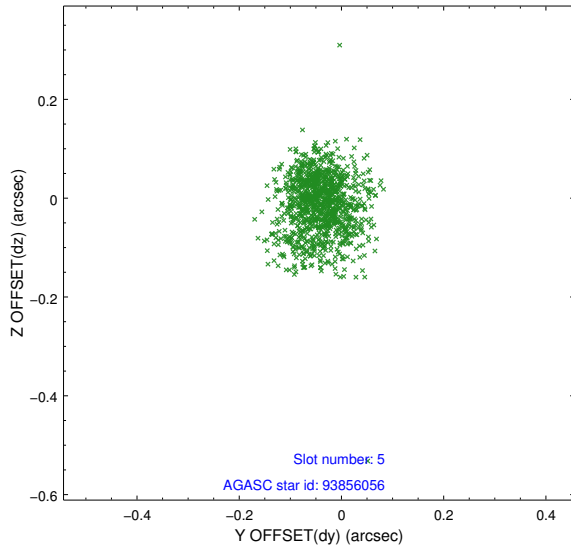
2.4.1 Slot 3



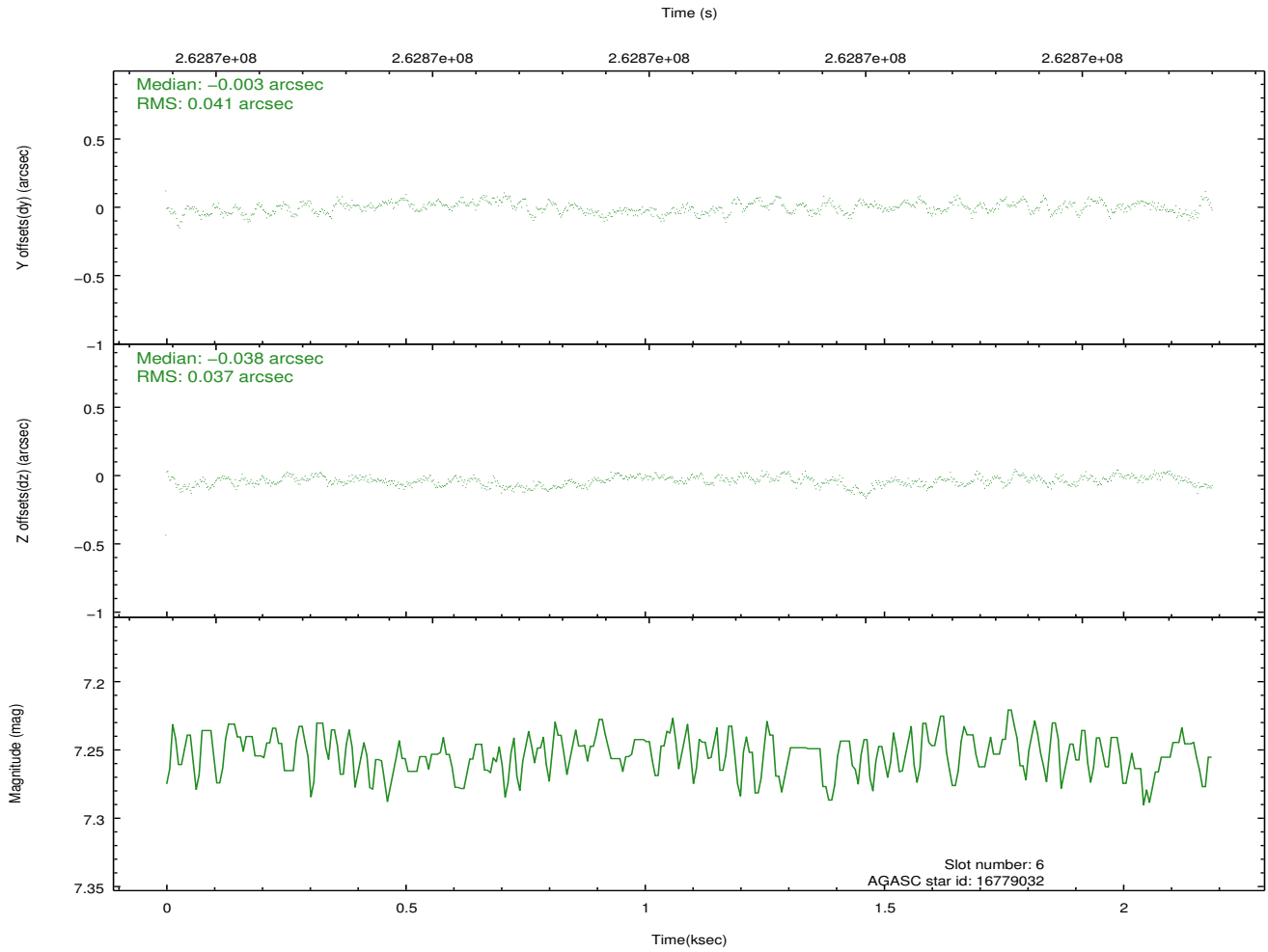
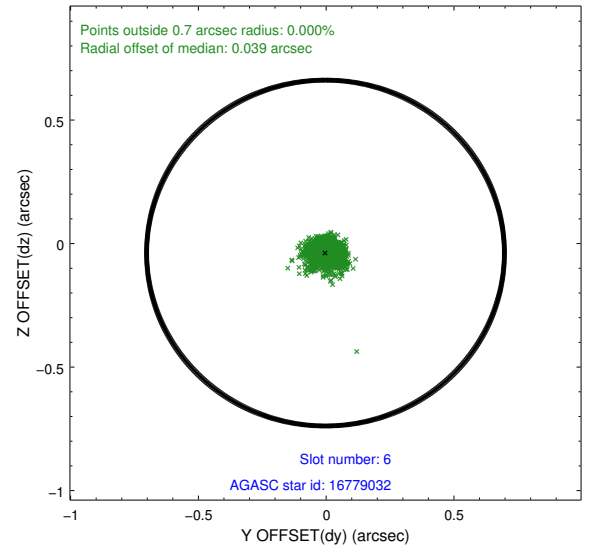
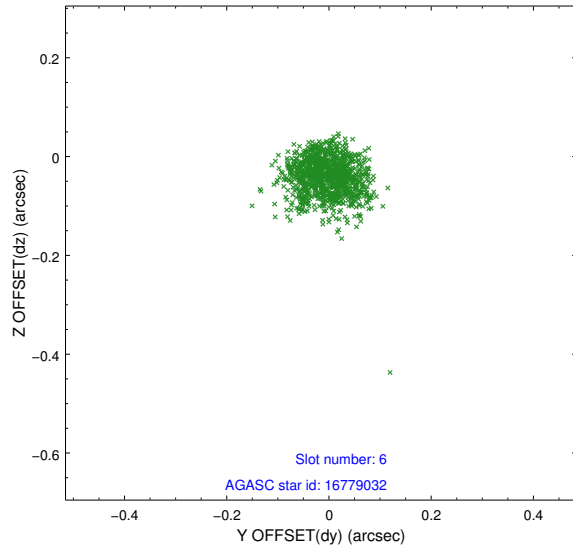
2.4.2 Slot 4



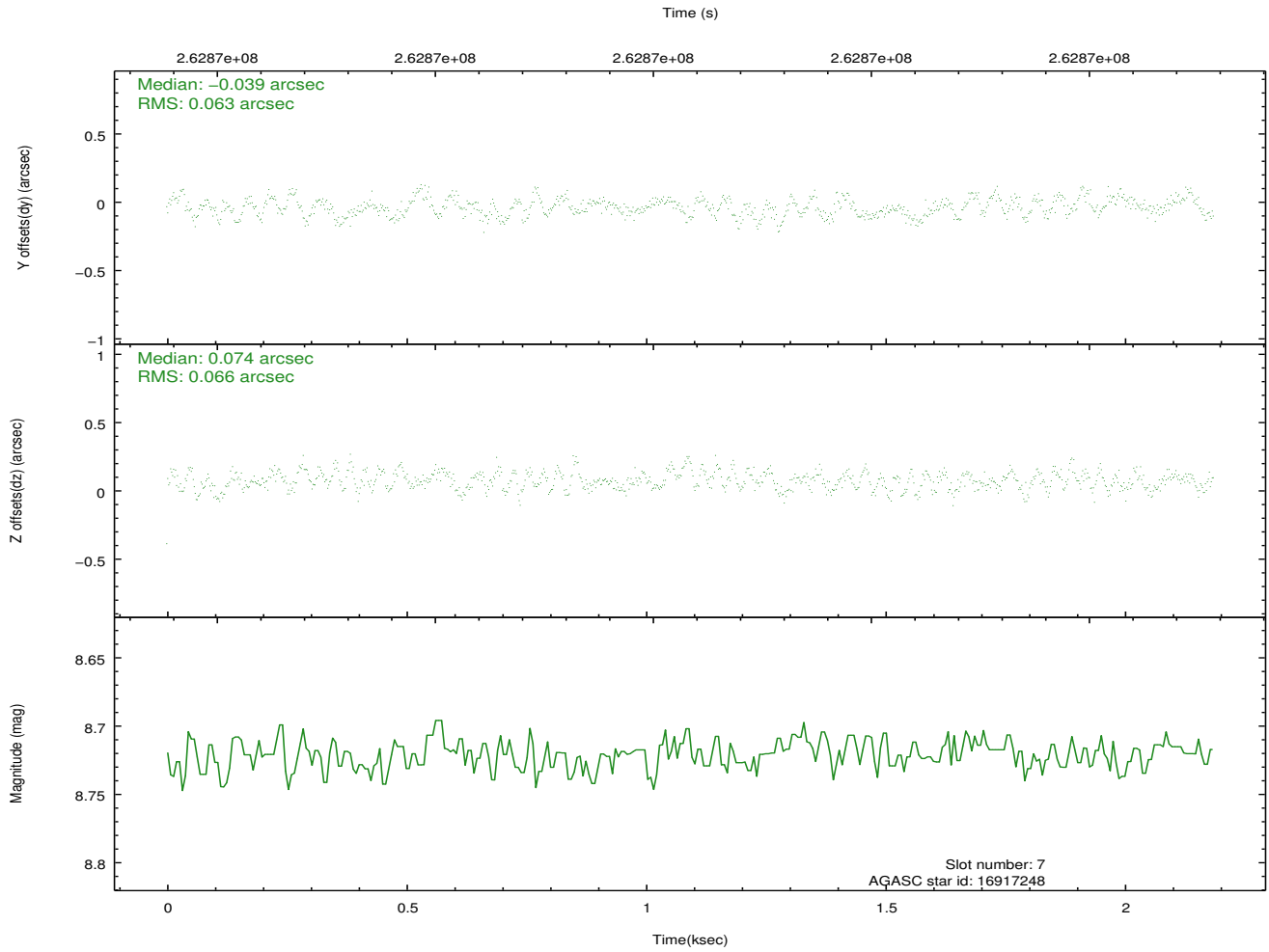
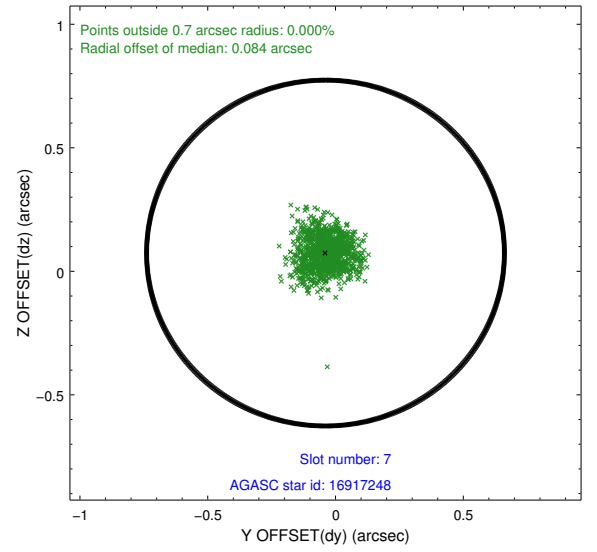
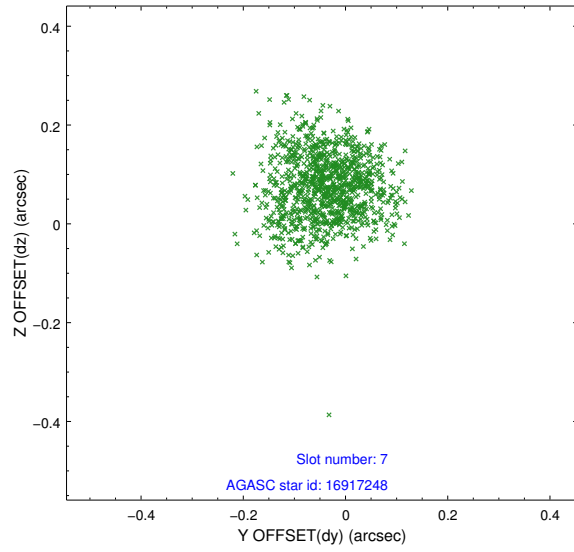
2.4.3 Slot 5



2.4.4 Slot 6

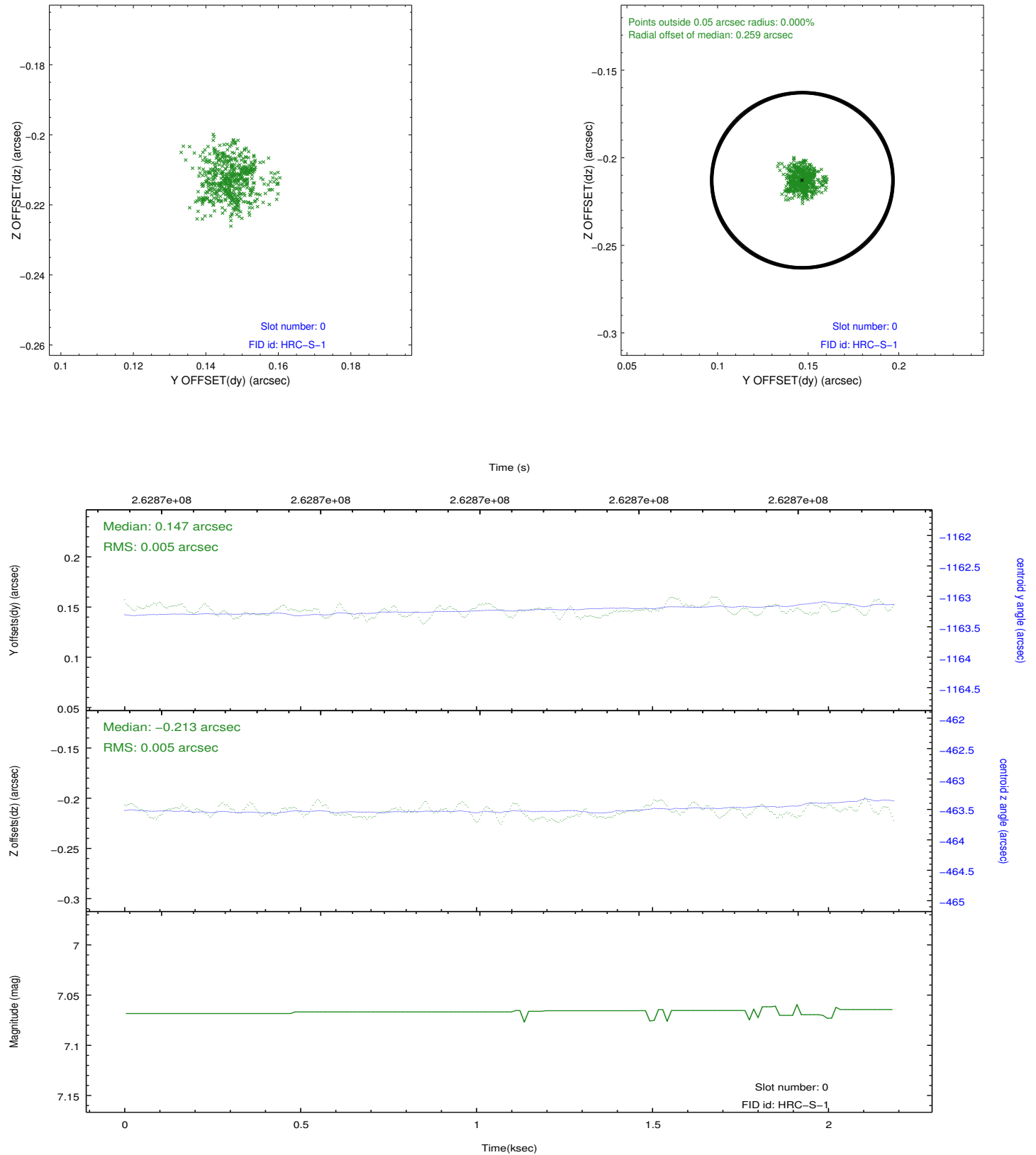


2.4.5 Slot 7

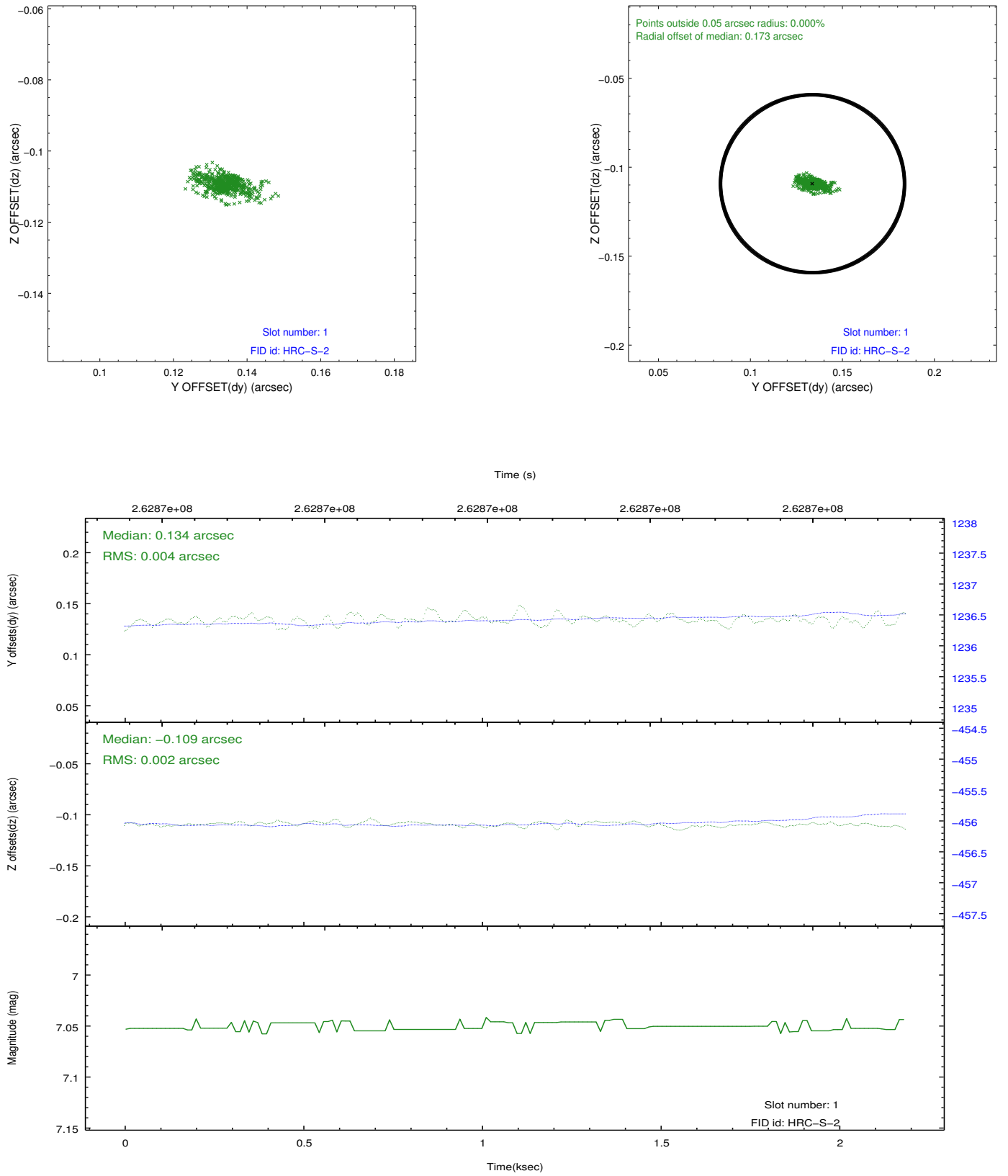


2.5 FID Slots

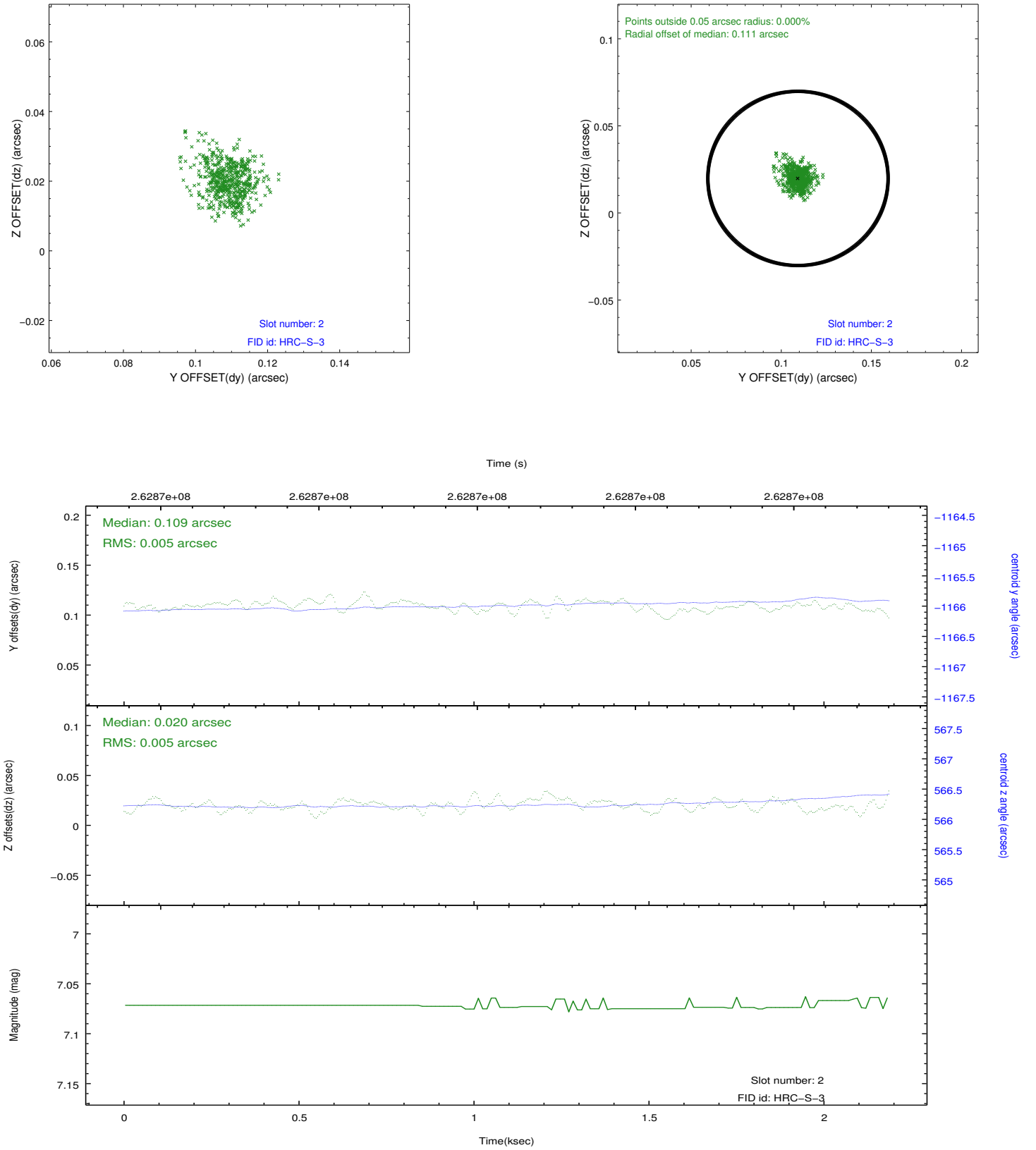
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.08.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.18658135 |

A.2 Comments

Window preference met.