

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10593 - L2 Version 3
Chandra X-Ray Center

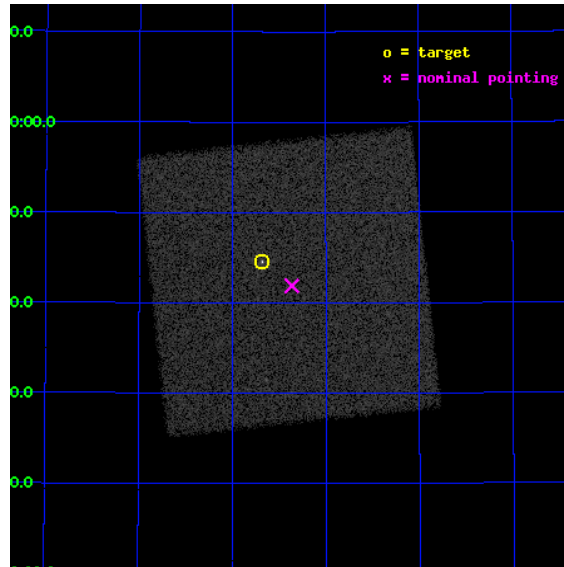
L2 Processing Date : Aug 13 2012

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1 Front

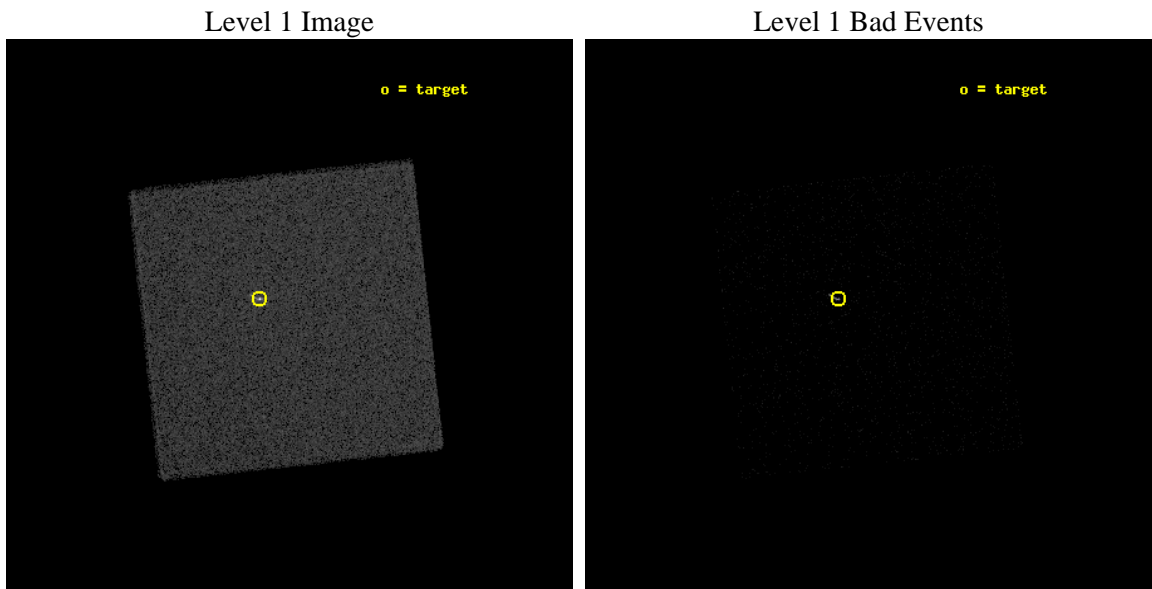
| | | |
|----------|--|---------------------------------------|
| seq_num | 290829 | Sequence number |
| obs_id | 10593 | Observation id |
| title | AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.09067455892 | Nominal RA [deg] |
| dec_nom | 45.698091082239 | Nominal Dec [deg] |
| roll_nom | 218.84379161291 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1184.1313095093 | [s] |
| livetime | 1169.2441460233 | Ontime multiplied by DTCOR |
| l2events | 95662 | 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 | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1184.1313095093 | [s] |
| caldbver | 4.5.1.1 | | l1events | 174125 | Number of level 1 events |
| date | 2012-08-13T14:47:57 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

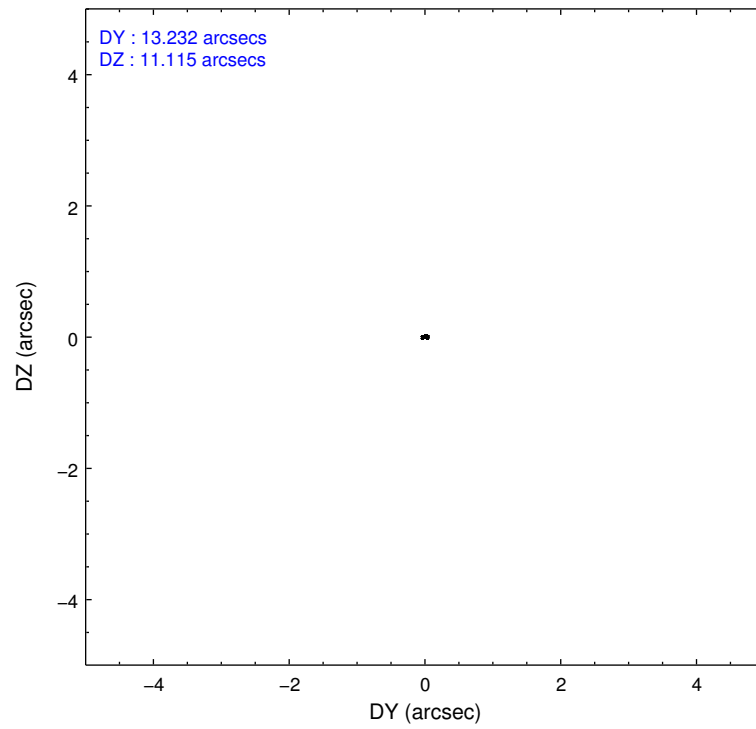
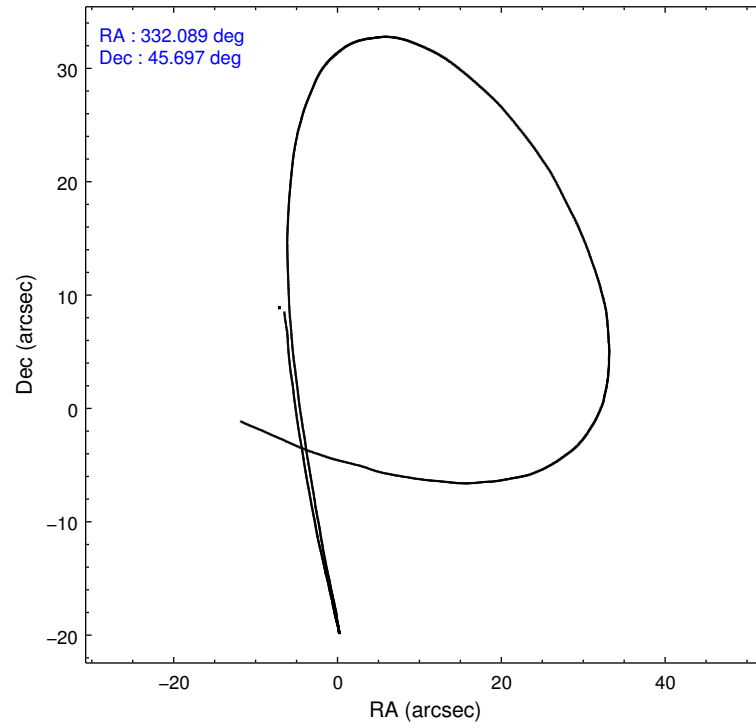
Level 1 Events

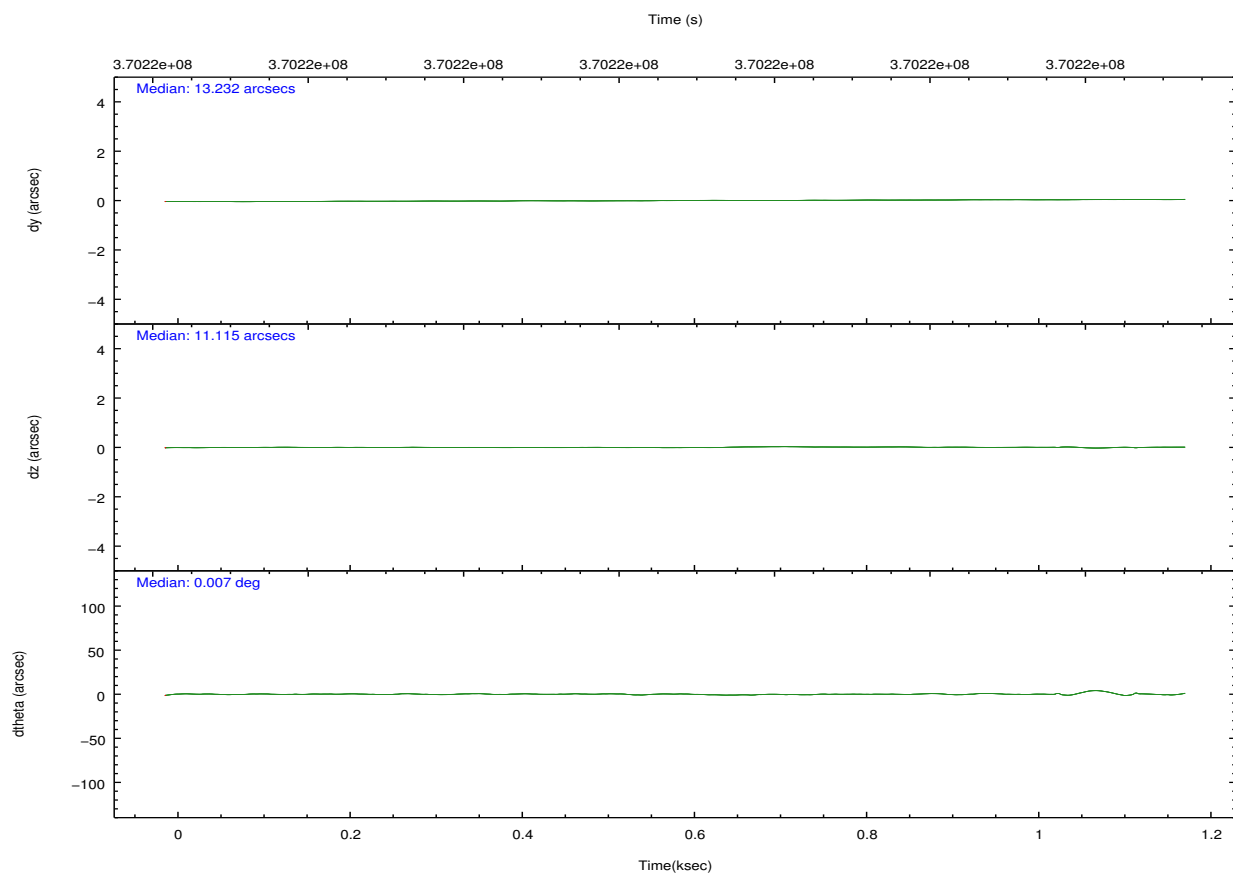
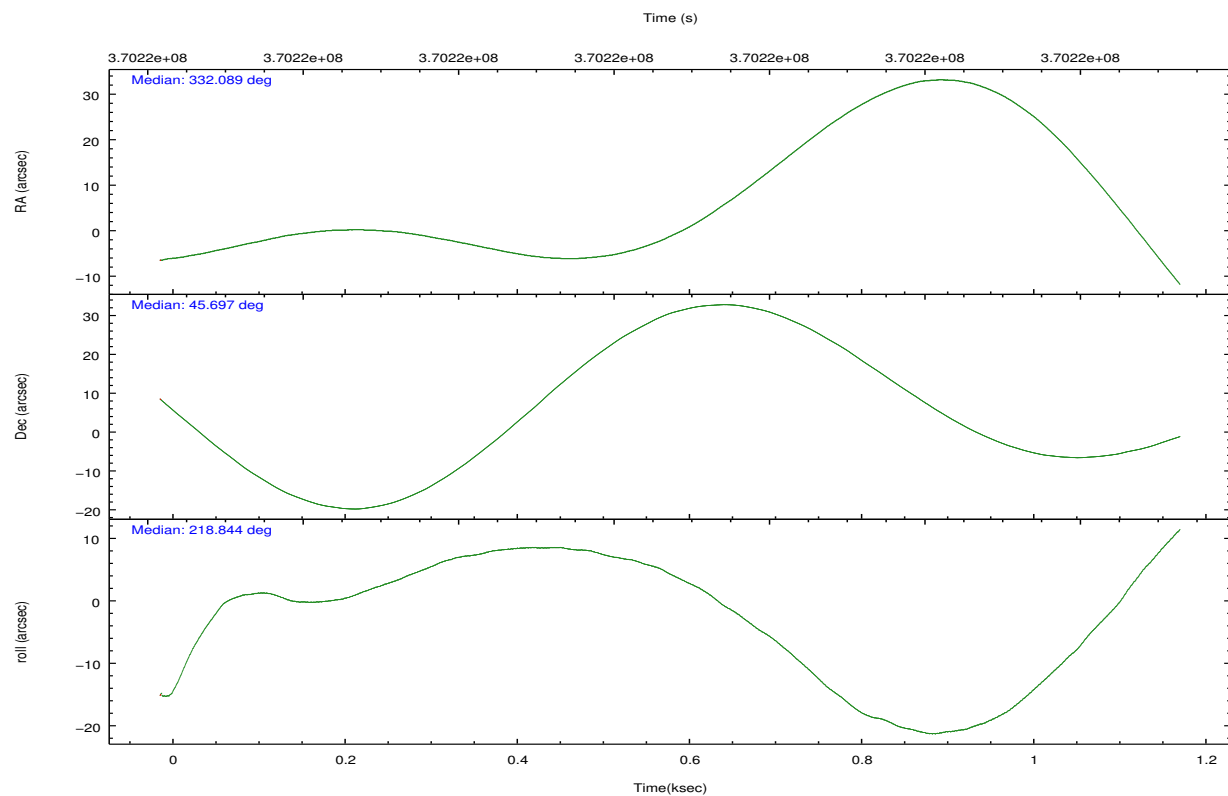
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 174125 |
| rejected events | 37321 |
| rejected % | 21% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-I | HRC-I | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 332.103138 | 332.0906745589226 | | | |
| [deg] Pointing Dec | 45.724771 | 45.69809108223863 | | | |
| [deg] Pointing Roll | 218.930558 | 218.843791612915 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 126.985494 | 126.9804656746847 | | | |
| [mm] SIM translation stage offset | 0 | 0.005023216916882234 | | | |
| [s] Observation start time (MET) | 370221449.184000 | 370221073.34724 | | | |
| Observation start date | 2009-09-24T23:16:23 | 2009-09-24T23:11:13 | | | |
| [s] Observation end time (MET) | 370222449.184000 | 370222583.68482 | | | |
| Observation end date | 2009-09-24T23:33:03 | 2009-09-24T23:36:23 | | | |

2.3 Aspect



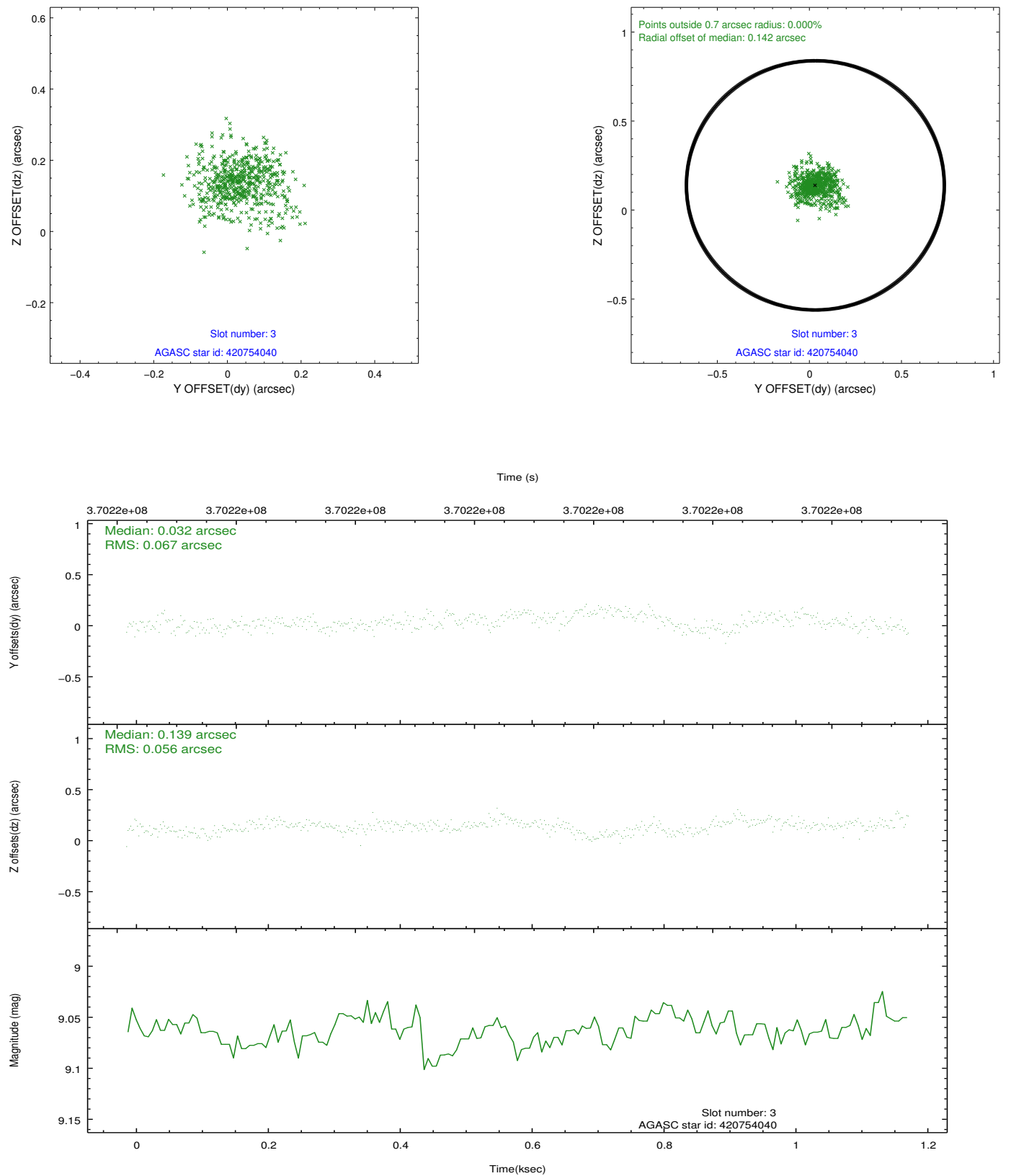


Slot Statistics

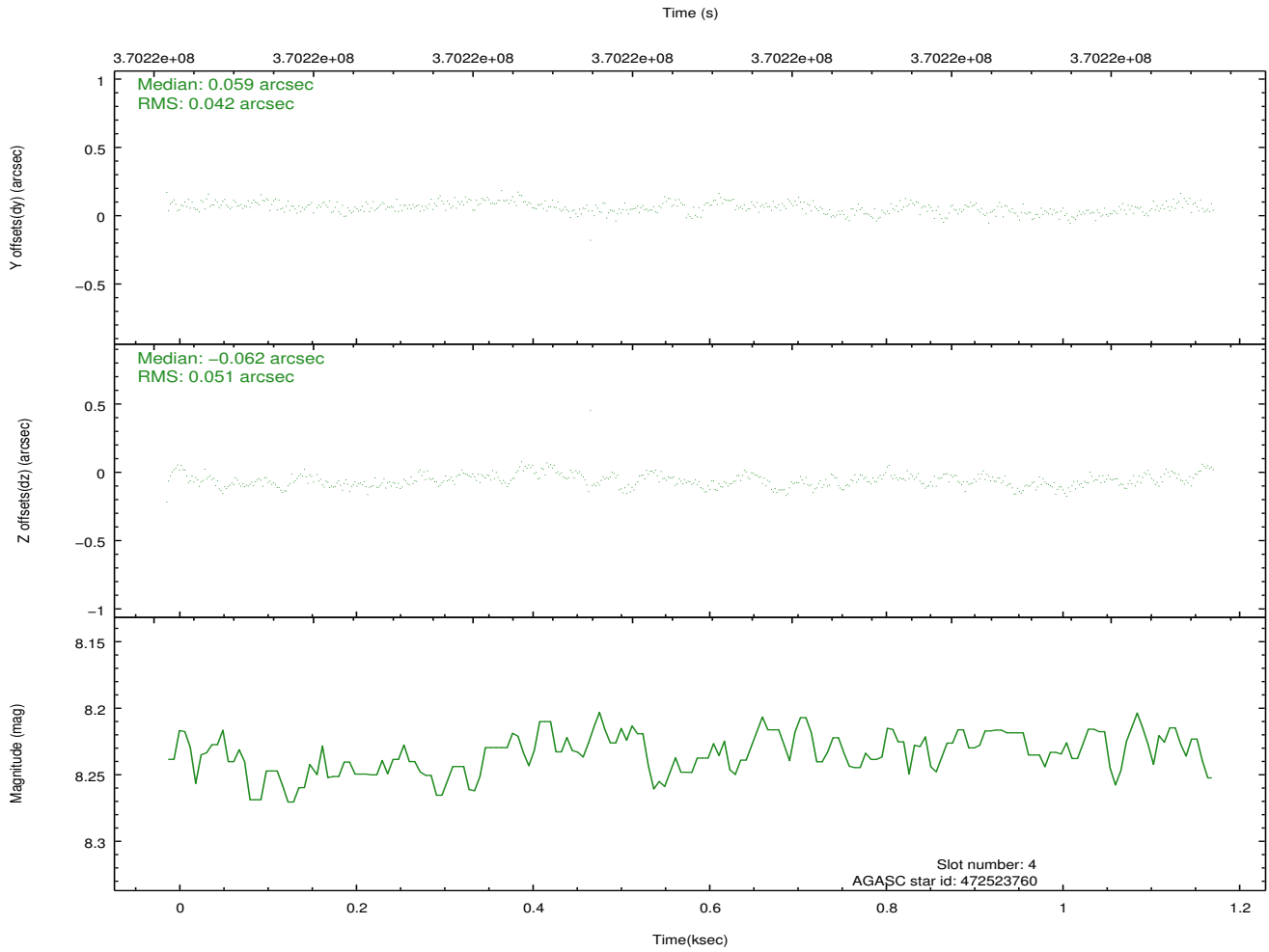
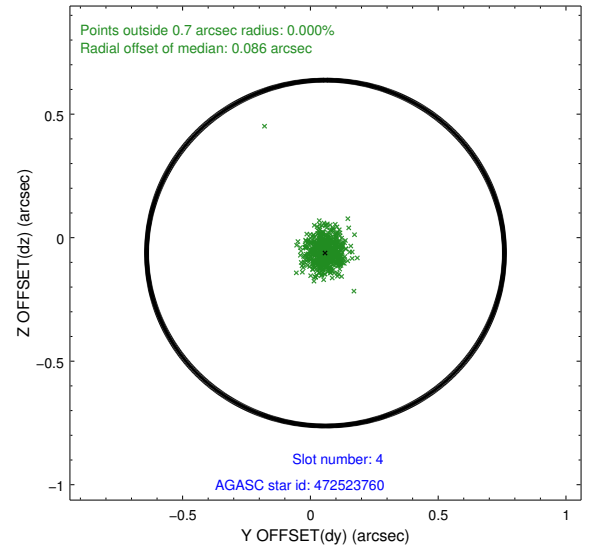
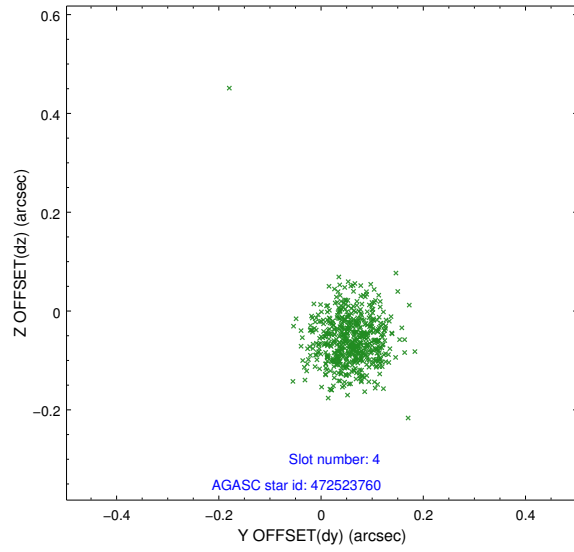
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-2 | 7.01 | 290 | 0.110 | -0.107 | 0.006 | 0.011 | 0.000000 | 0.000000 | 843.79 | -1300.69 |
| 1 | FID | HRC-I-3 | 7.07 | 290 | -0.151 | 0.050 | 0.006 | 0.013 | 0.000000 | 0.000000 | -1194.74 | 1001.07 |
| 2 | FID | HRC-I-4 | 7.01 | 290 | 0.161 | -0.030 | 0.006 | 0.011 | 0.000000 | 0.000000 | 1269.82 | 1006.59 |
| 3 | GUIDE | 420754040 | 9.06 | 579 | 0.032 | 0.139 | 0.095 | 0.153 | 331.917939 | 44.882543 | 2270.77 | 2057.96 |
| 4 | GUIDE | 472523760 | 8.23 | 578 | 0.059 | -0.062 | 0.066 | 0.106 | 331.645363 | 45.403260 | 1628.83 | 170.21 |
| 5 | GUIDE | 472533912 | 9.15 | 579 | -0.011 | 0.150 | 0.118 | 0.188 | 331.791136 | 46.368695 | -852.53 | -2295.12 |
| 6 | GUIDE | 472651904 | 6.13 | 579 | -0.110 | -0.247 | 0.086 | 0.128 | 332.170077 | 45.742257 | -172.55 | 47.70 |
| 7 | GUIDE | 472655152 | 9.43 | 578 | 0.024 | 0.016 | 0.108 | 0.198 | 332.504239 | 45.862991 | -1097.36 | 238.95 |

2.4 Star Slots

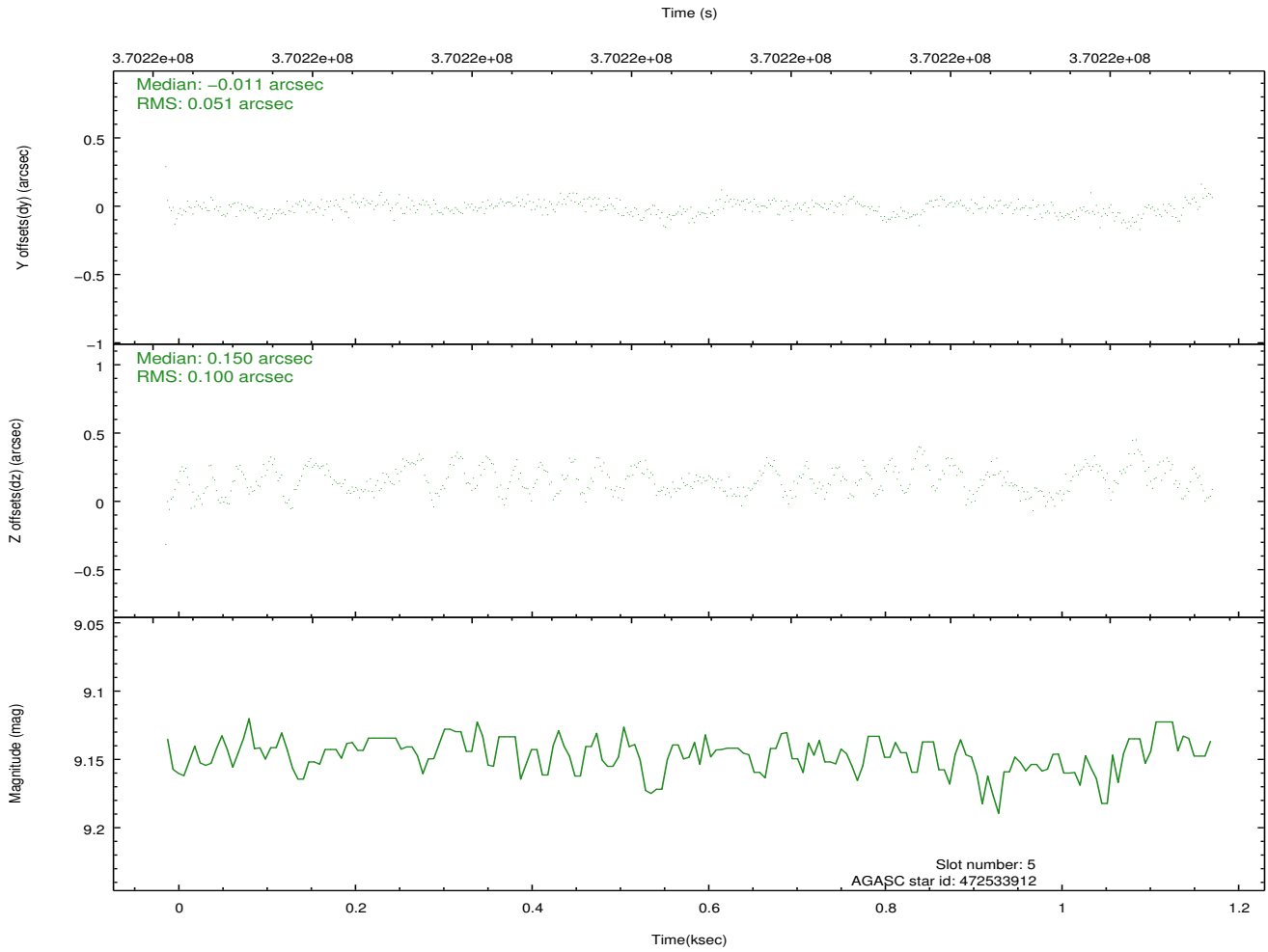
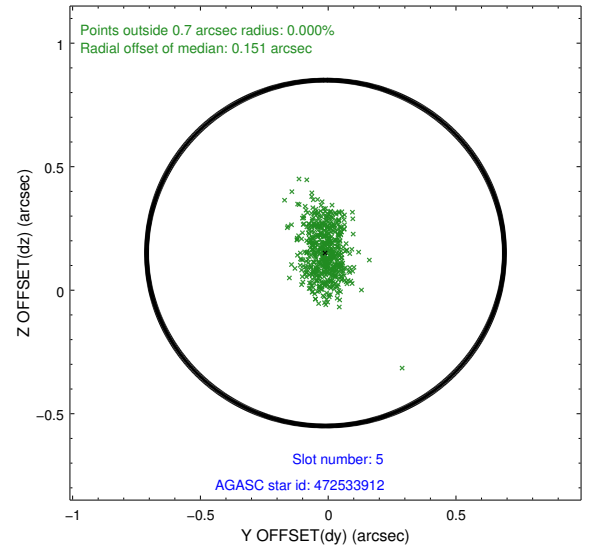
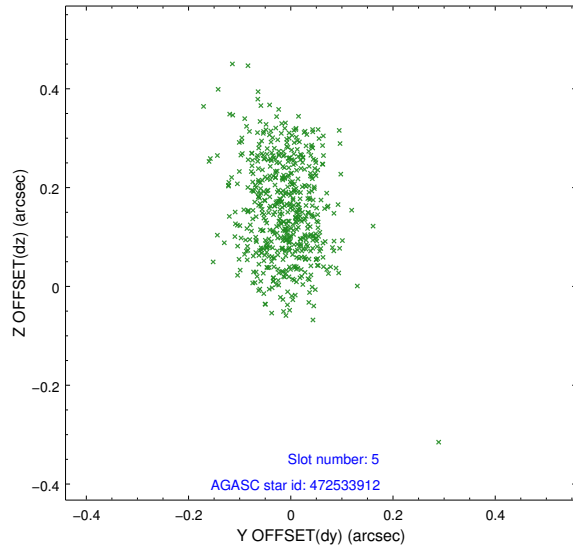
2.4.1 Slot 3



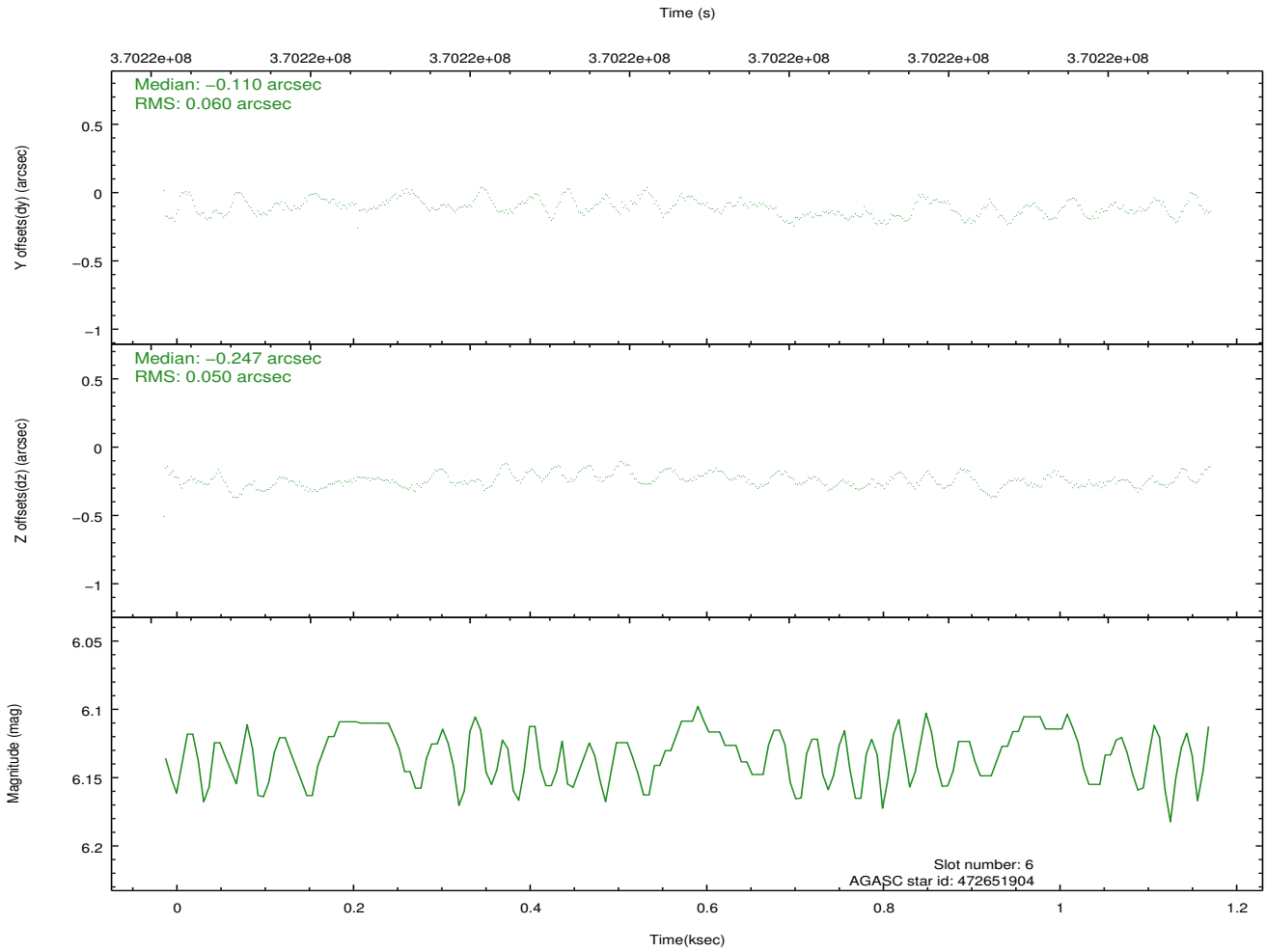
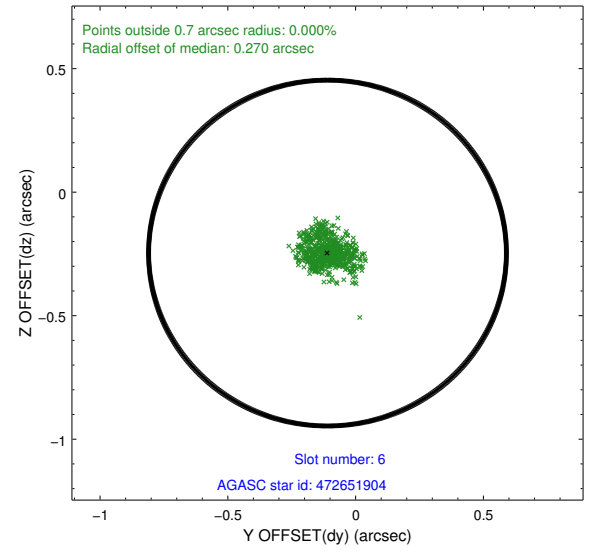
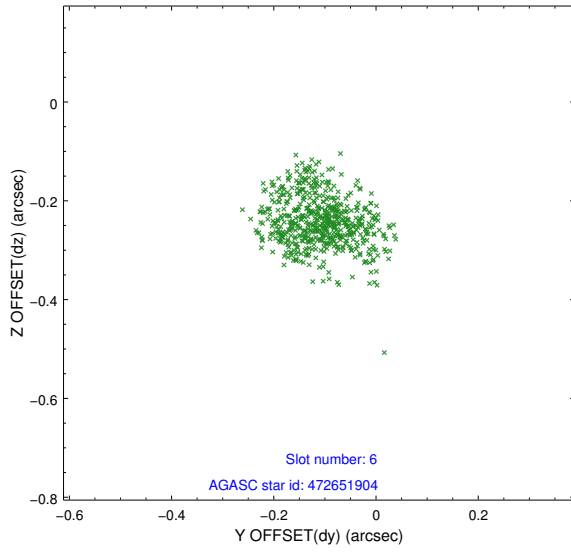
2.4.2 Slot 4



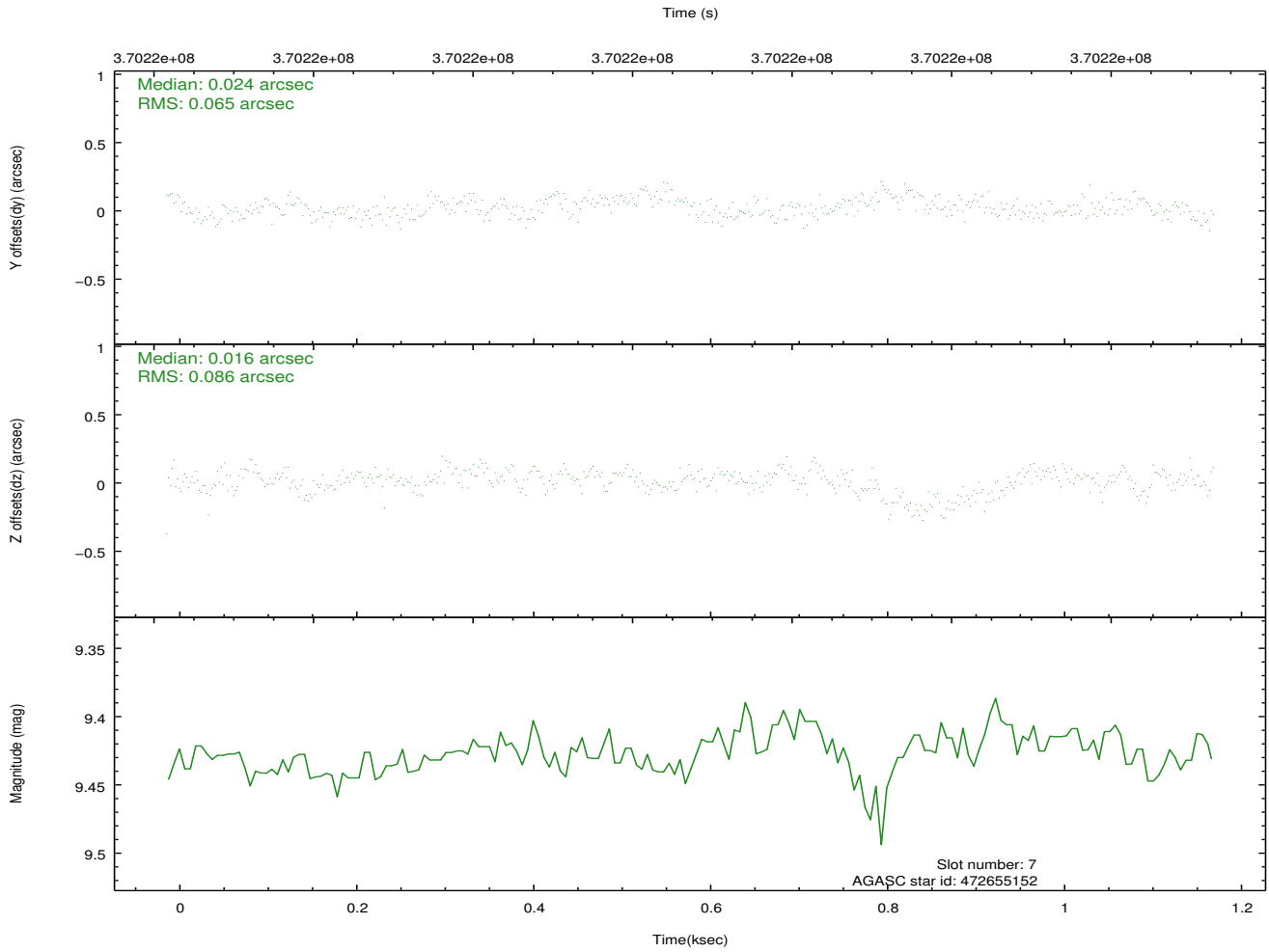
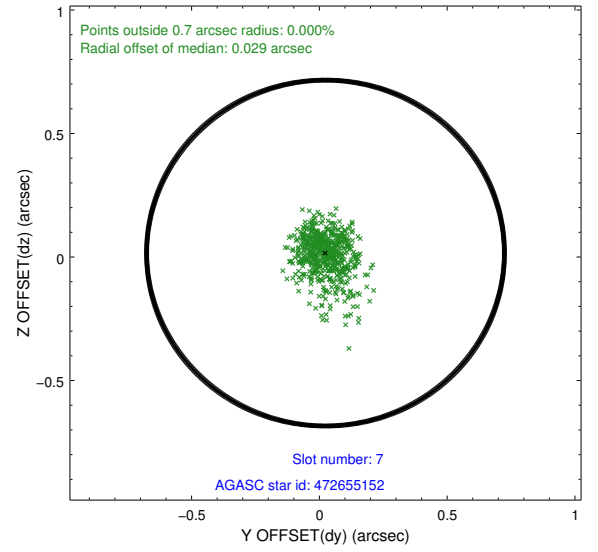
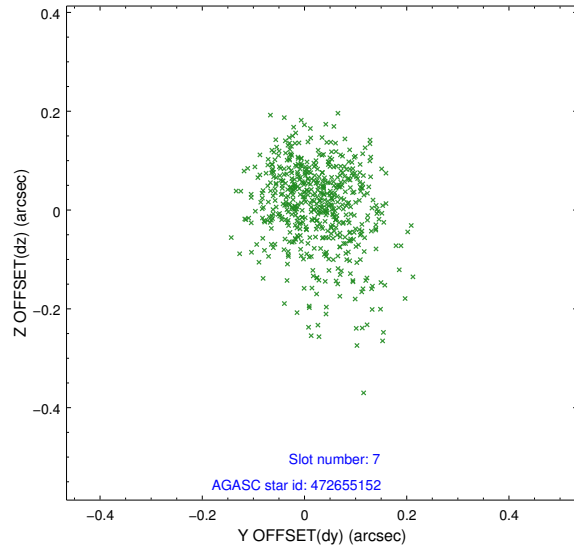
2.4.3 Slot 5



2.4.4 Slot 6

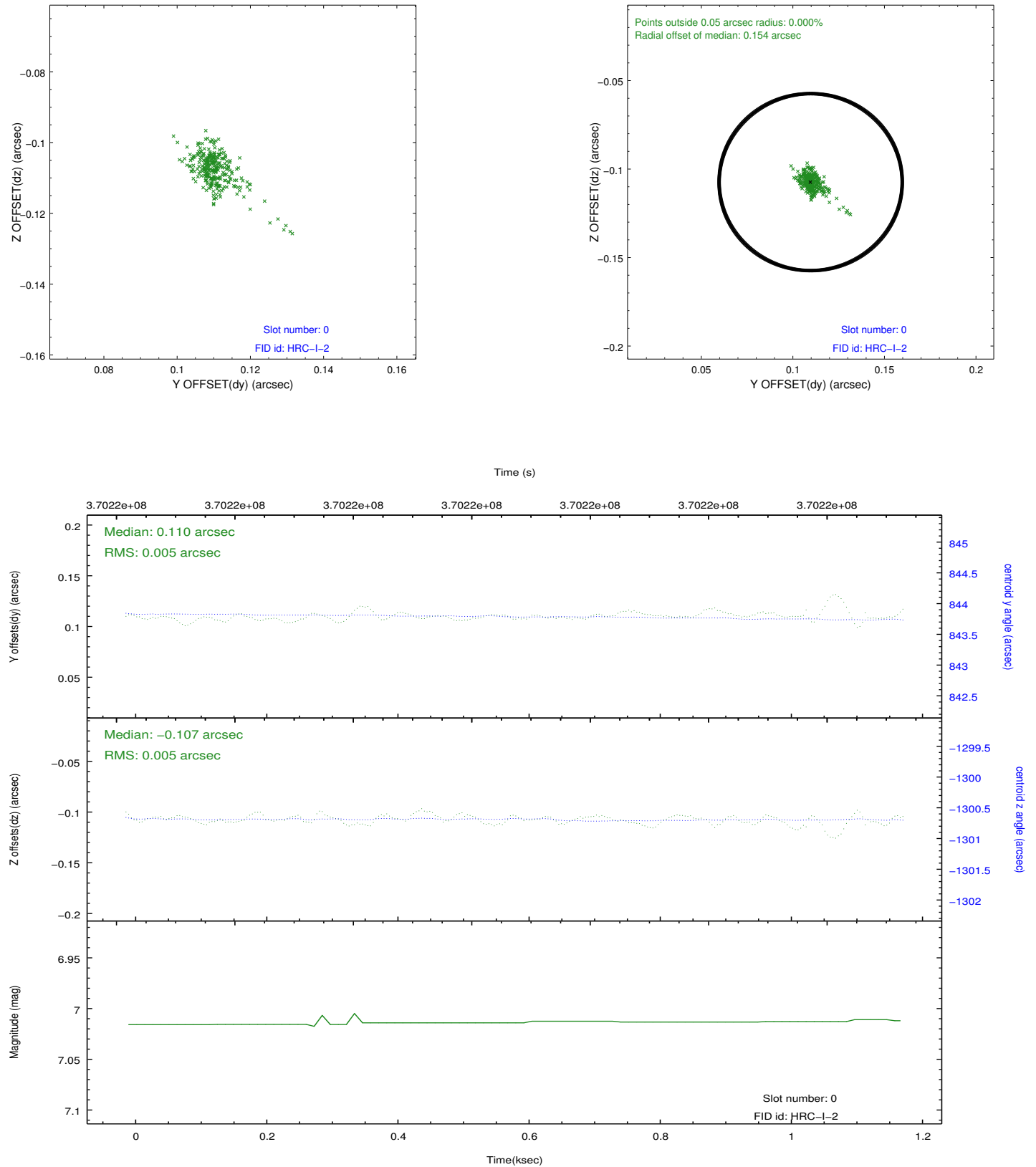


2.4.5 Slot 7

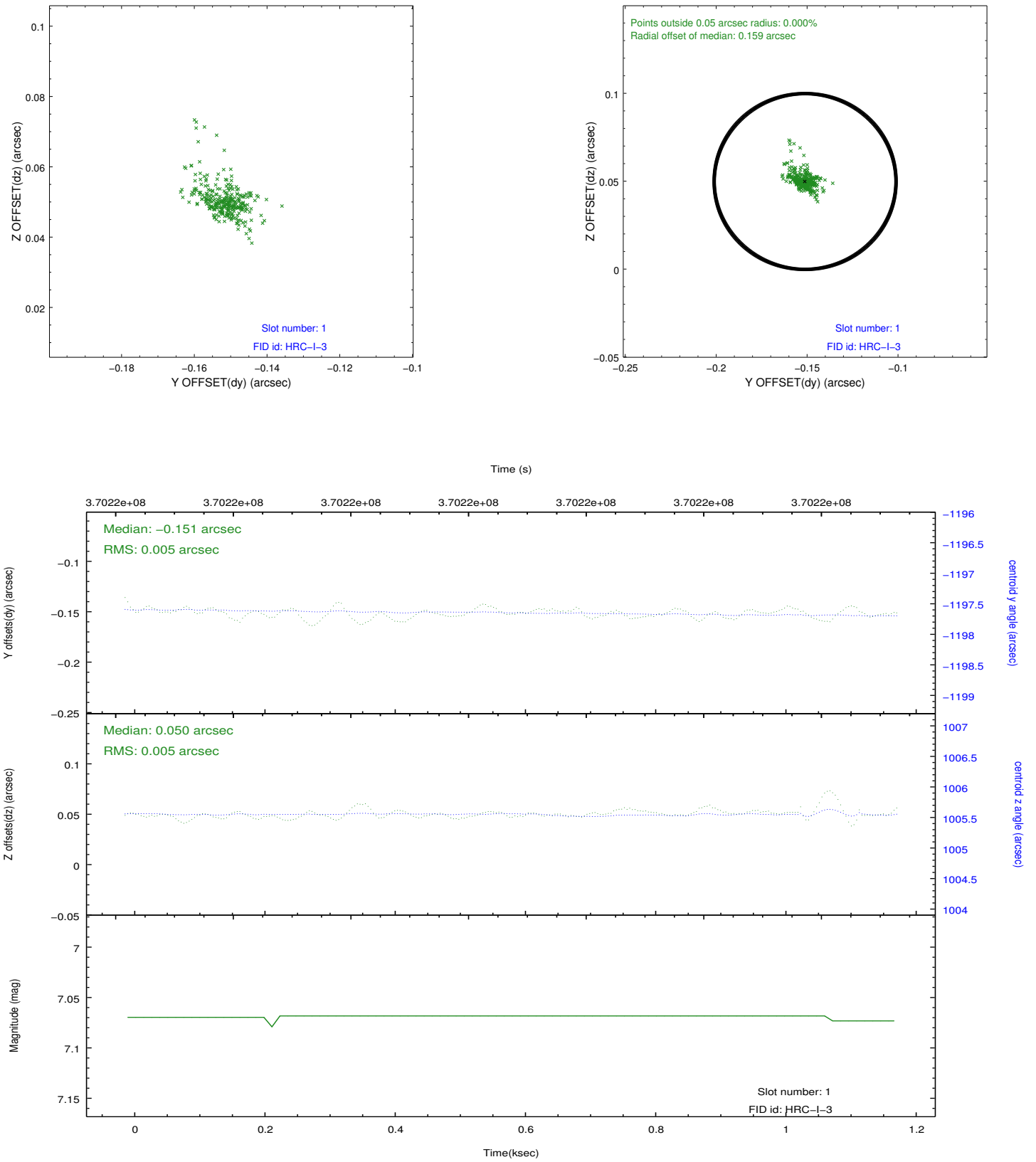


2.5 FID Slots

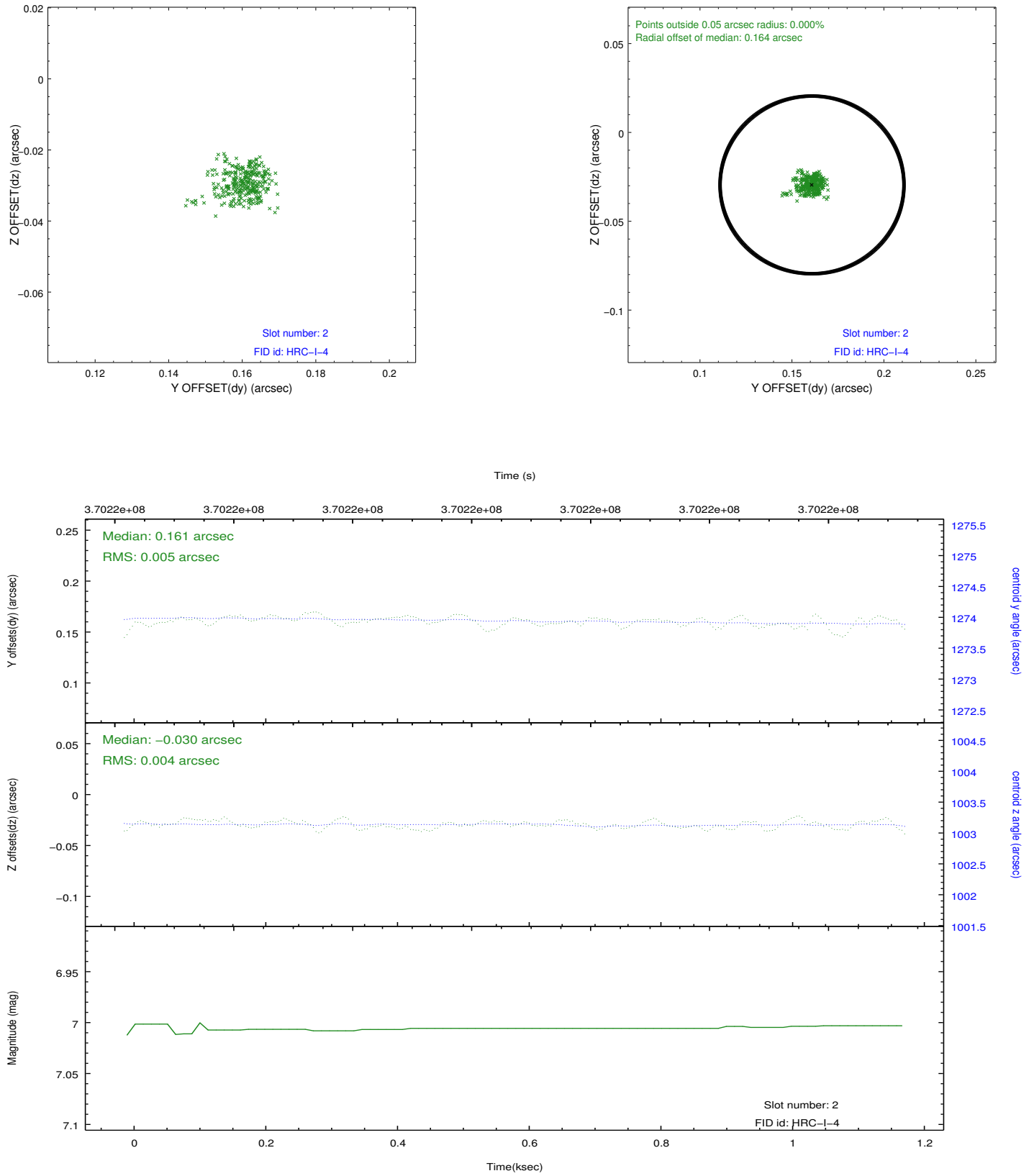
2.5.1 Slot 0



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) | 2012.08.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1841313094497 |

A.2 Comments