

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 14919 - L2 Version 3
Chandra X-Ray Center

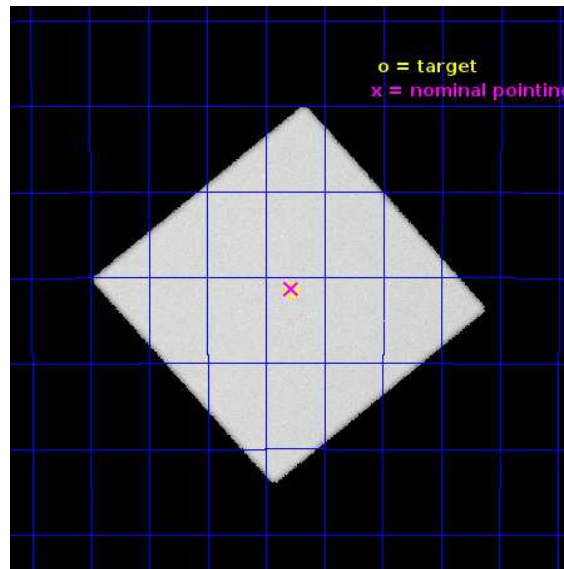
L2 Processing Date : Jun 10 2015

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Parameters | 4 |
| 2.1.3 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

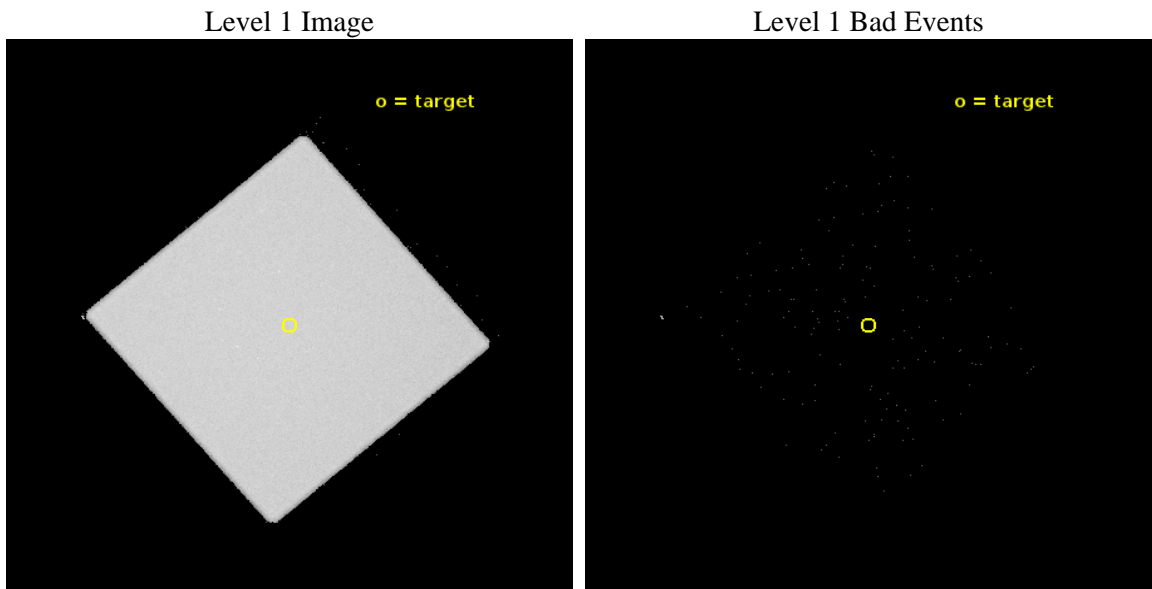
| | | |
|----------|---|---------------------------------------|
| seq_num | 601049 | Sequence number |
| obs_id | 14919 | Observation id |
| title | Seeing through Baade's Window: Discovering X-Ray Sources that have Long-Term Optical Light Curves | Proposal title |
| observer | Dr. Rosanne Di Stefano | Principal investigator |
| object | Baade's Window HRC-4 | Source name |
| ra_targ | 270.069167 | Observer's specified target RA [deg] |
| dec_targ | -28.859167 | Observer's specified target Dec [deg] |
| ra_nom | 270.07060761496 | Nominal RA [deg] |
| dec_nom | -28.855062234826 | Nominal Dec [deg] |
| roll_nom | 94.459369048186 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 29873.370390117 | [s] |
| livetime | 29652.496561914 | Ontime multiplied by DTCOR |
| l2events | 1726421 | 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 | 30000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4 | Processing system revision | ontime | 29873.370390117 | [s] |
| caldbver | 4.6.7 | | l1events | 2382007 | Number of level 1 events |
| date | 2015-06-10T14:44:04 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

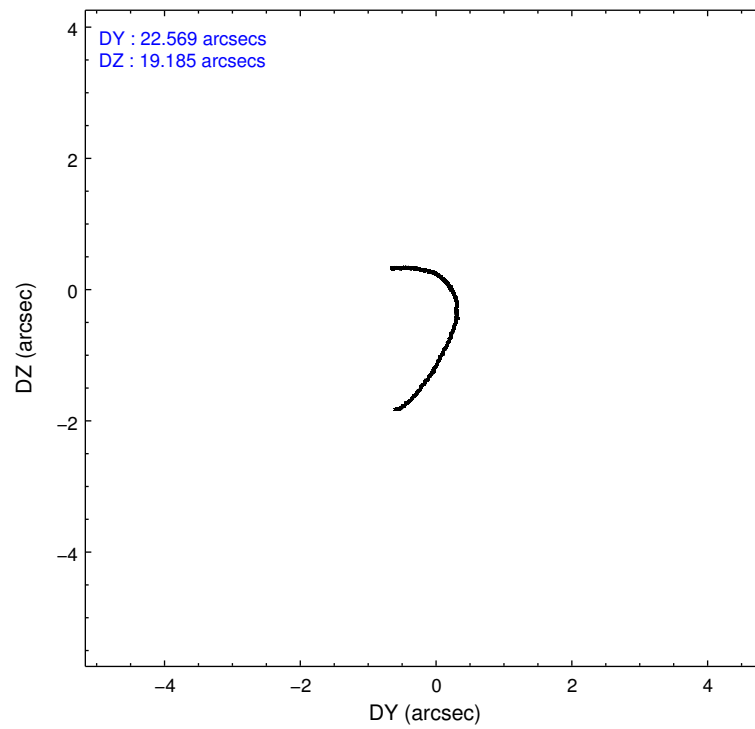
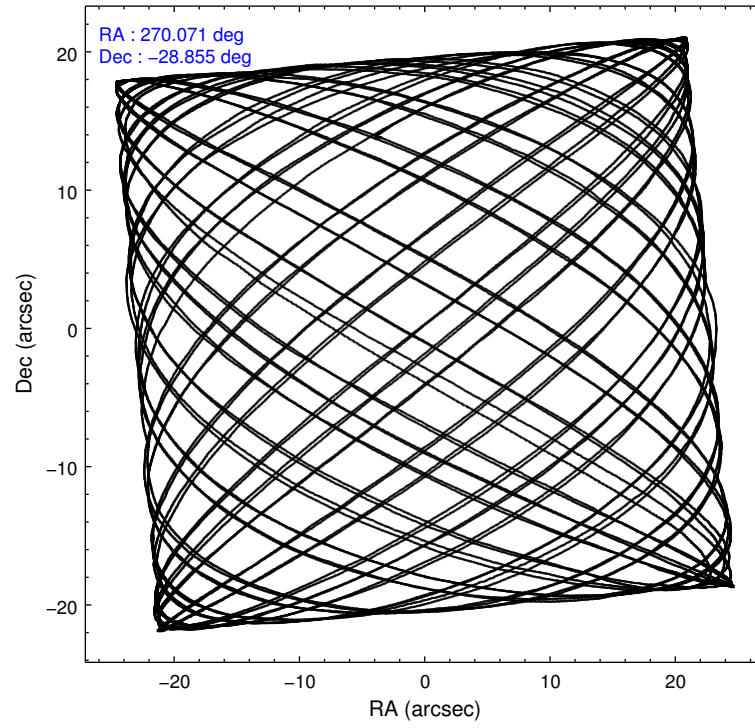
Level 1 Events

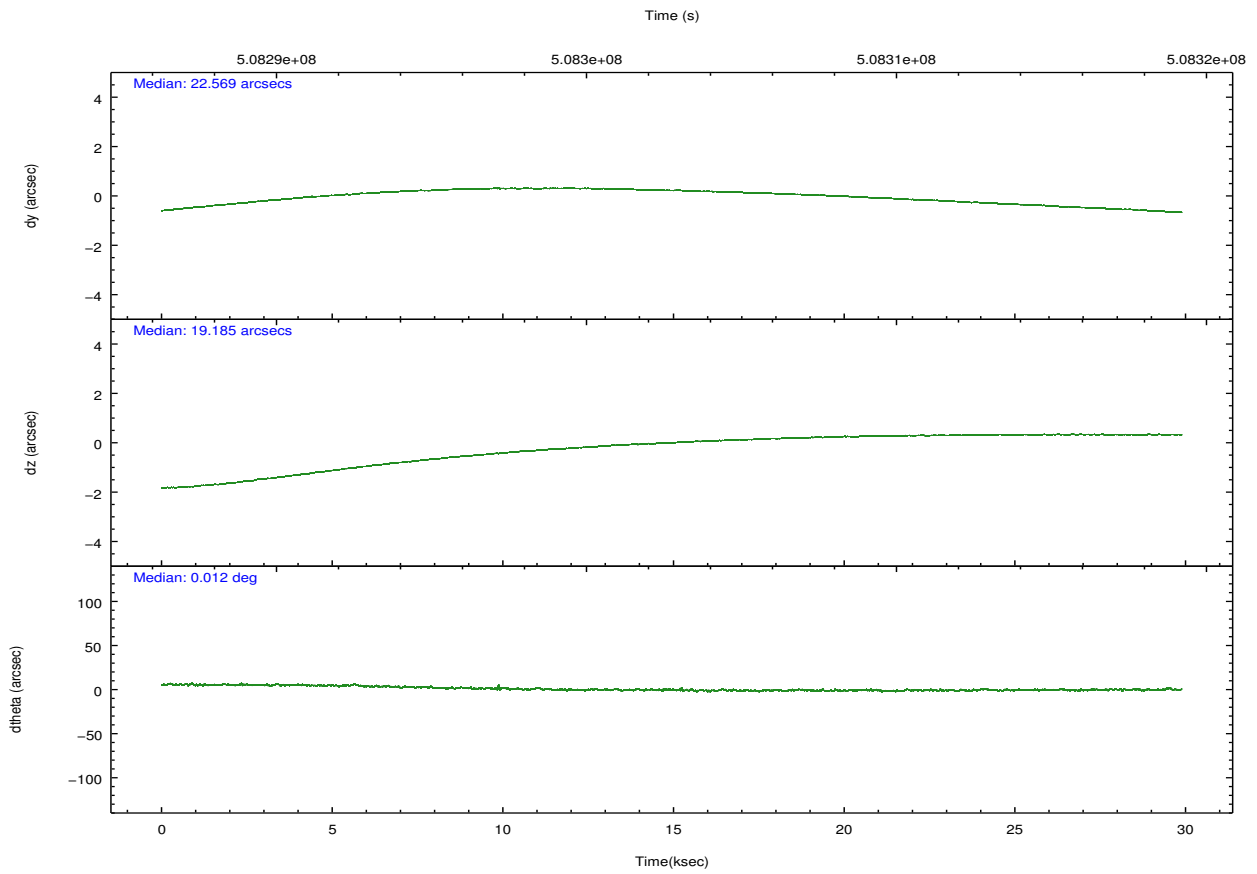
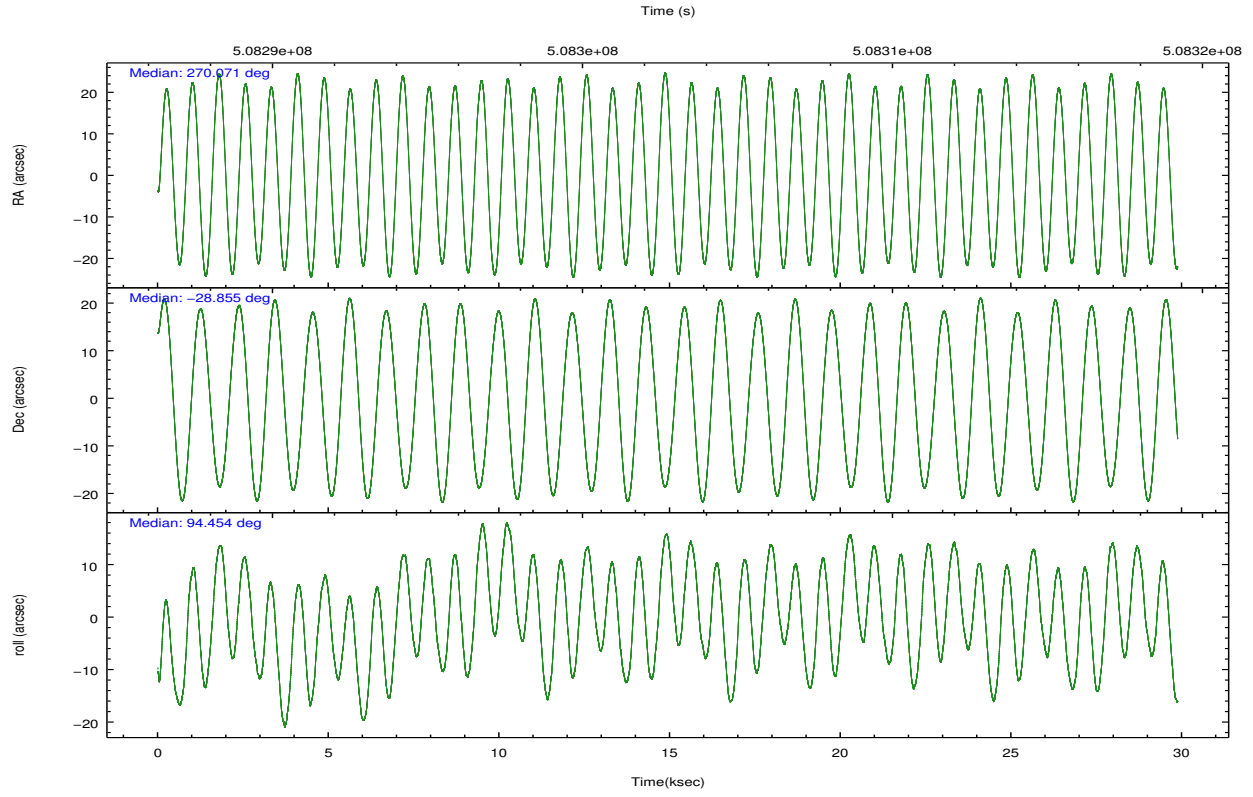
| | segment 0 |
|-----------------|----------------------|
| level 1 events | 2382007 |
| rejected events | 68348 |
| rejected % | 2% |

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 | 270.088758 | 270.0706076149568 | | | |
| [deg] Pointing Dec | -28.877189 | -28.85506223482551 | | | |
| [deg] Pointing Roll | 94.563619 | 94.45936904818606 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 126.985494 | 126.9829799899862 | | | |
| [mm] SIM translation stage offset | 0 | 0.002508901615314585 | | | |
| [s] Observation start time (MET) | 508287694.184000 | 508286981.02897 | | | |
| Observation start date | 2014-02-08T23:00:27 | 2014-02-08T22:49:41 | | | |
| [s] Observation end time (MET) | 508317694.184000 | 508318435.71819 | | | |
| Observation end date | 2014-02-09T07:20:27 | 2014-02-09T07:33:55 | | | |

2.3 Aspect





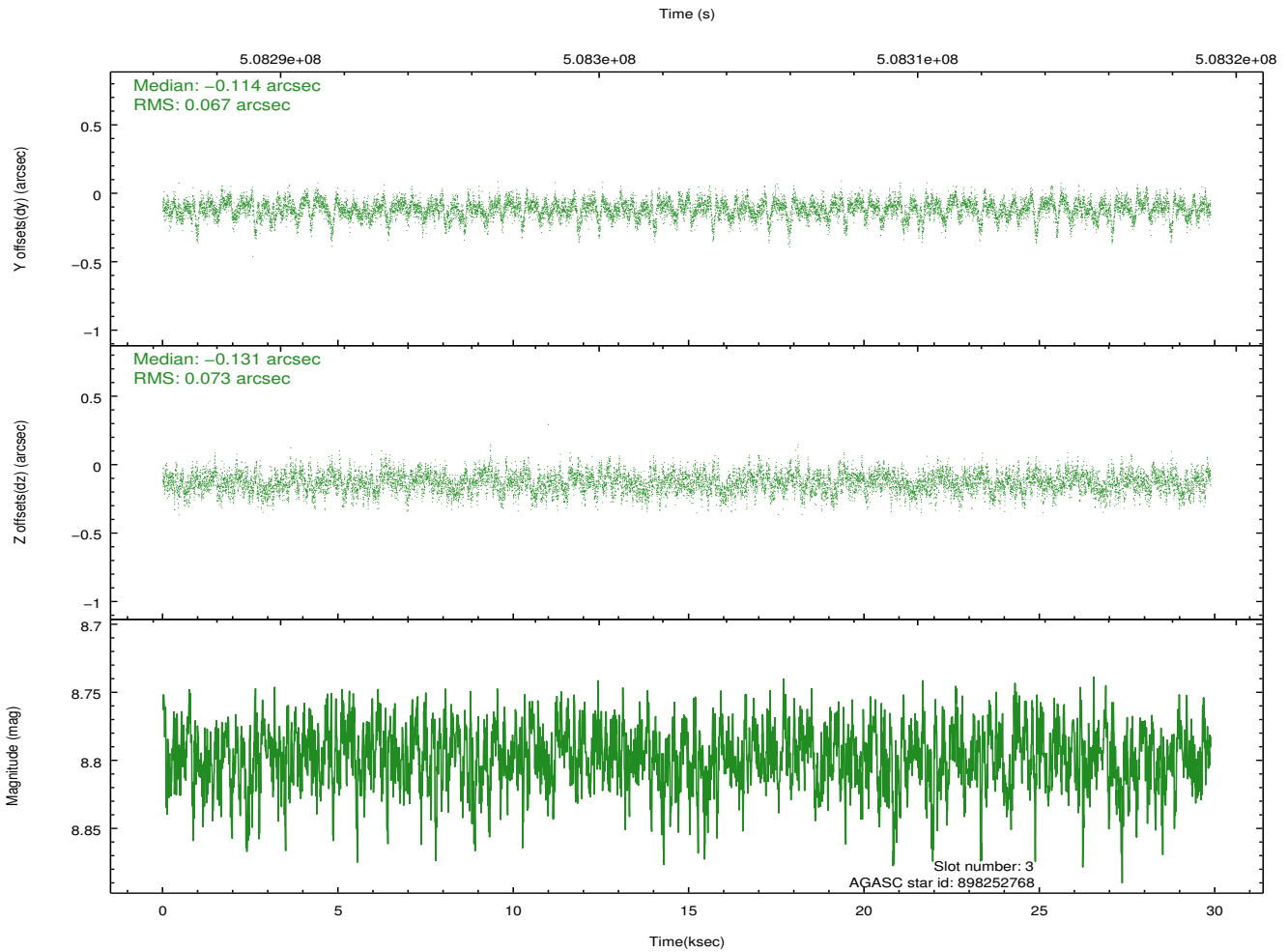
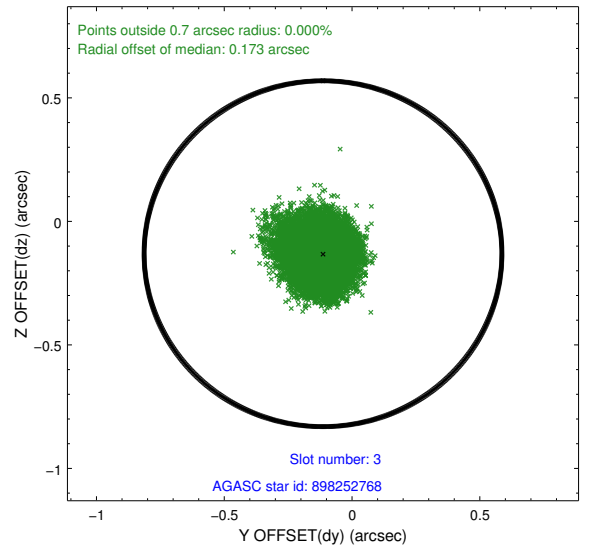
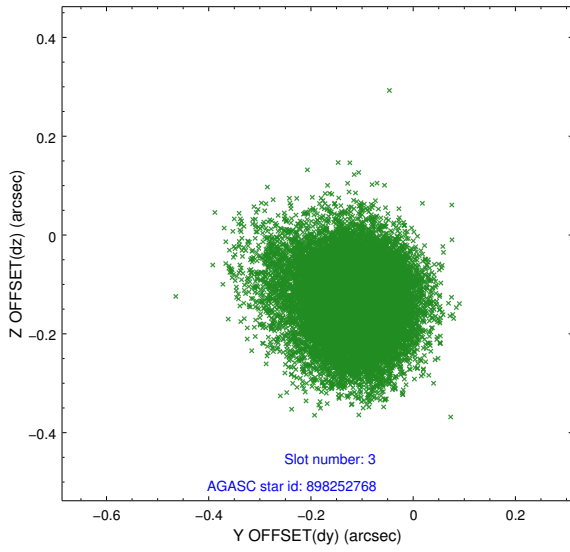
Slot Statistics

| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | | HRC-I-1 | 6.95 | 7287 | -0.058 | -0.004 | 0.024 | 0.043 | 0.000000 | 0.000000 | -778.67 | -1307.04 |
| 1 | FID | | HRC-I-3 | 7.04 | 7287 | -0.153 | -0.136 | 0.019 | 0.032 | 0.000000 | 0.000000 | -1207.20 | 997.24 |
| 2 | FID | | HRC-I-4 | 6.96 | 7285 | 0.321 | 0.054 | 0.022 | 0.040 | 0.000000 | 0.000000 | 1264.50 | 995.17 |
| 3 | GUIDE | used | 898252768 | 8.80 | 14571 | -0.114 | -0.131 | 0.105 | 0.173 | 269.910789 | -28.705322 | 661.02 | 511.08 |
| 4 | GUIDE | used | 898258992 | 7.99 | 14572 | -0.362 | -0.512 | 0.105 | 0.164 | 269.435214 | -28.570389 | 1259.38 | 1972.13 |
| 5 | GUIDE | used | 898267008 | 9.26 | 14569 | 0.371 | 0.117 | 0.125 | 0.204 | 269.842591 | -29.483588 | -2115.05 | 943.00 |
| 6 | GUIDE | used | 898371304 | 8.42 | 14573 | -0.025 | 0.225 | 0.118 | 0.189 | 270.531151 | -28.390506 | 1632.59 | -1535.24 |
| 7 | GUIDE | used | 898390056 | 9.36 | 14565 | 0.139 | 0.304 | 0.195 | 0.312 | 270.373659 | -28.786636 | 252.85 | -921.51 |

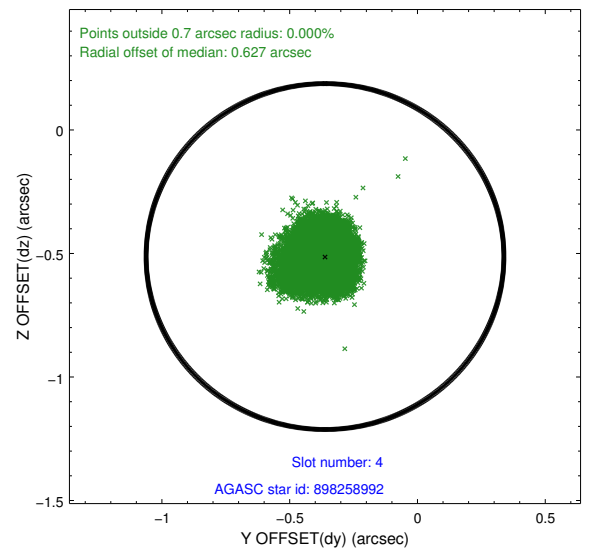
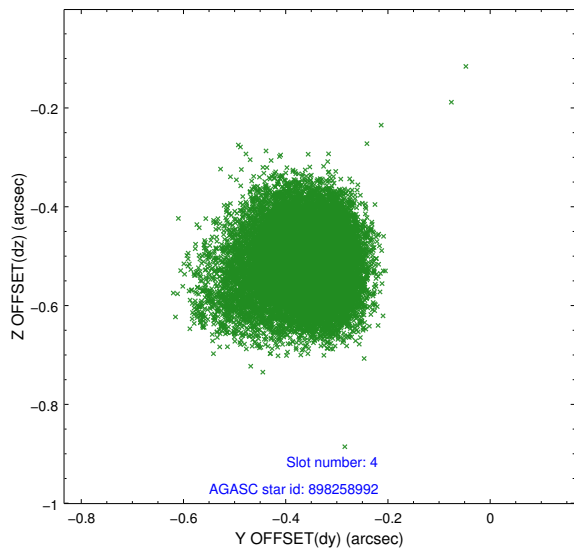
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2.4 Star Slots

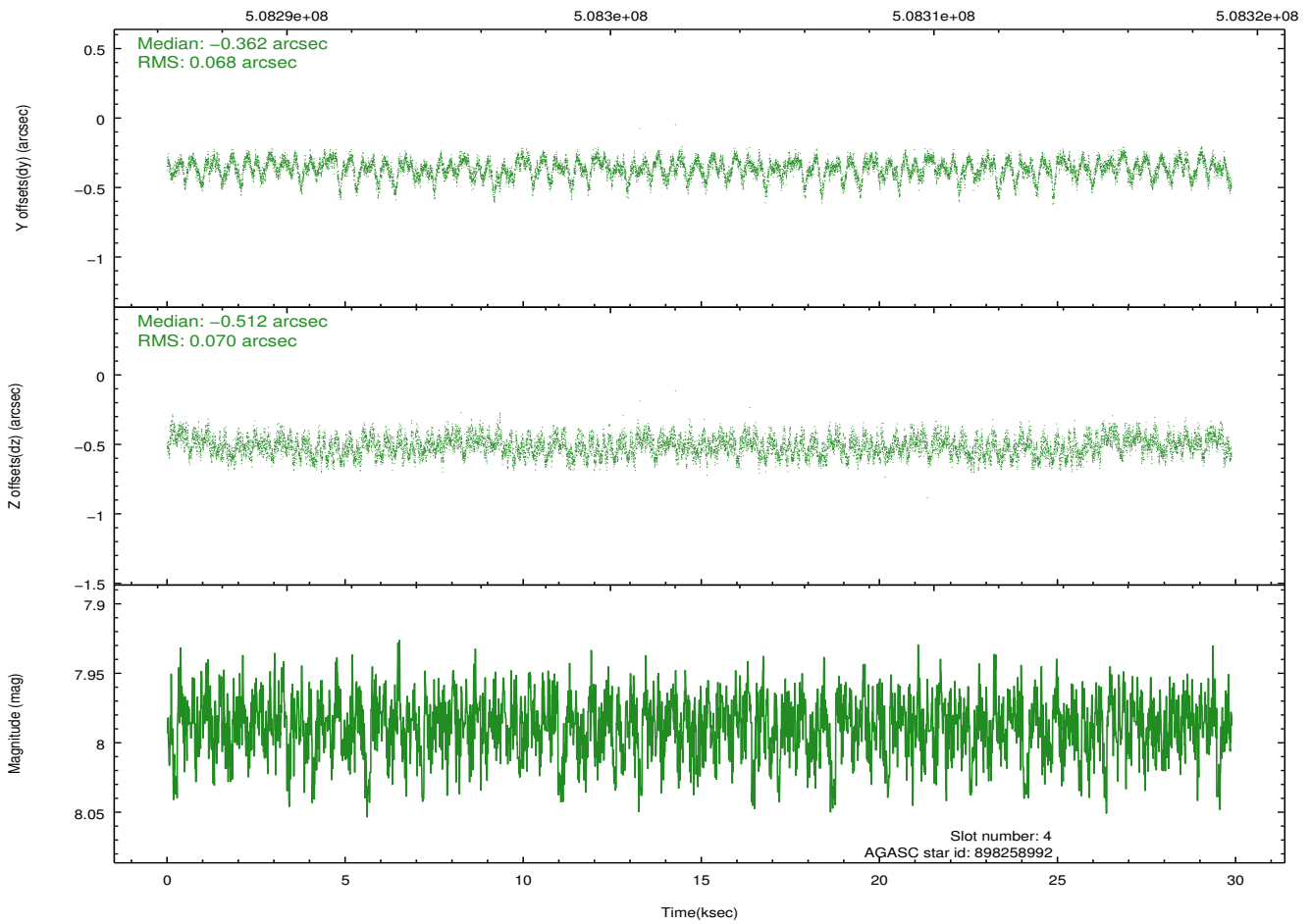
2.4.1 Slot 3



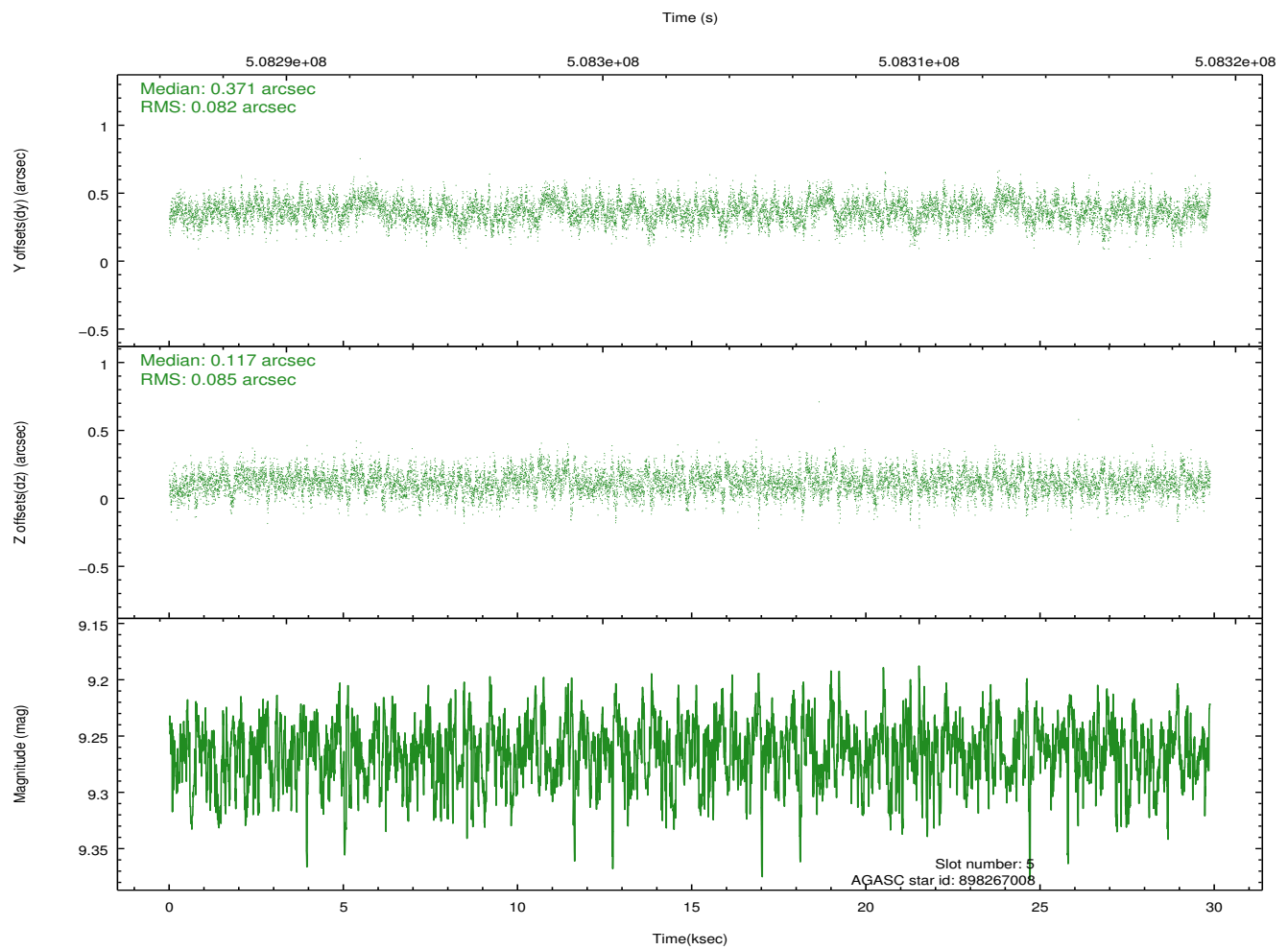
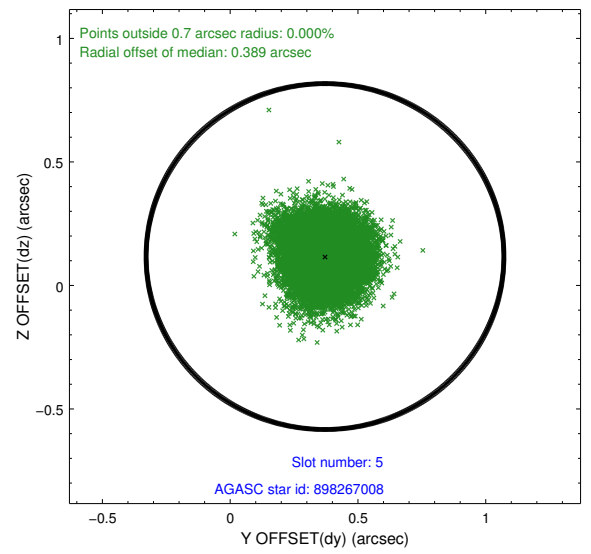
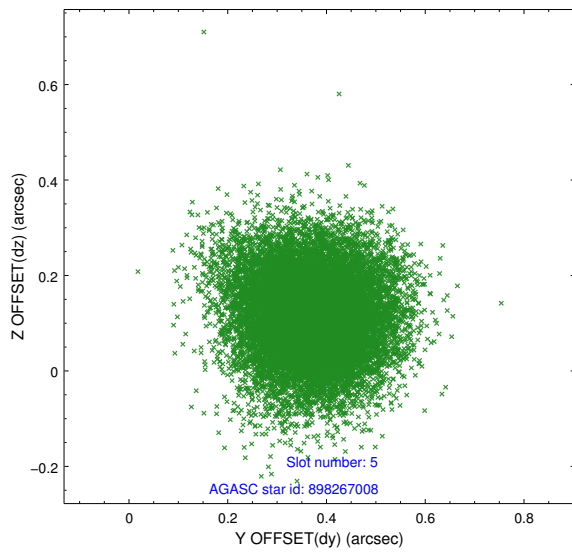
2.4.2 Slot 4



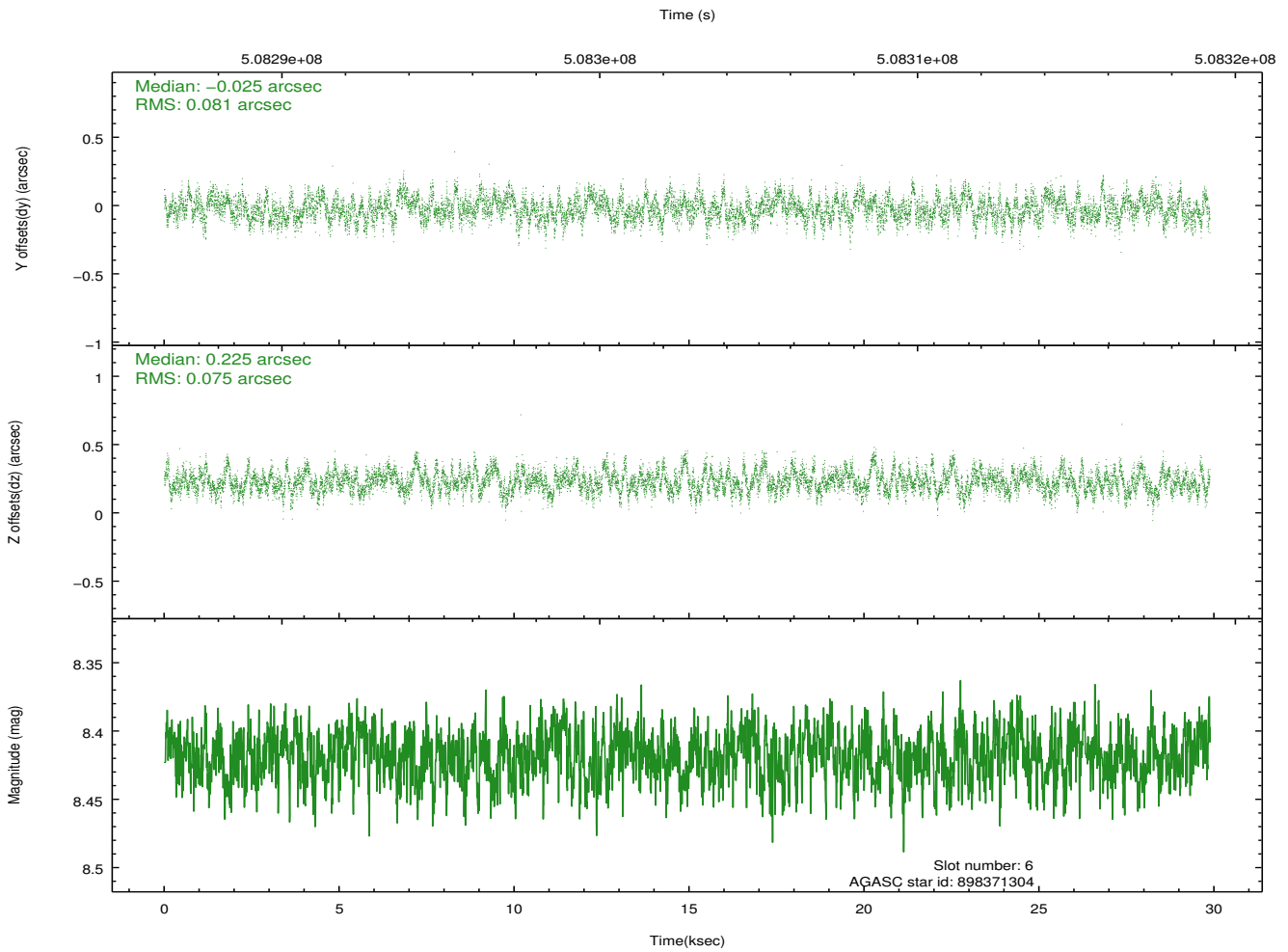
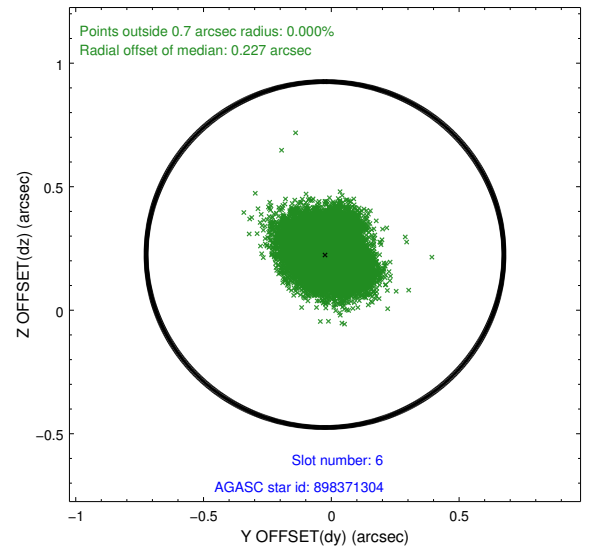
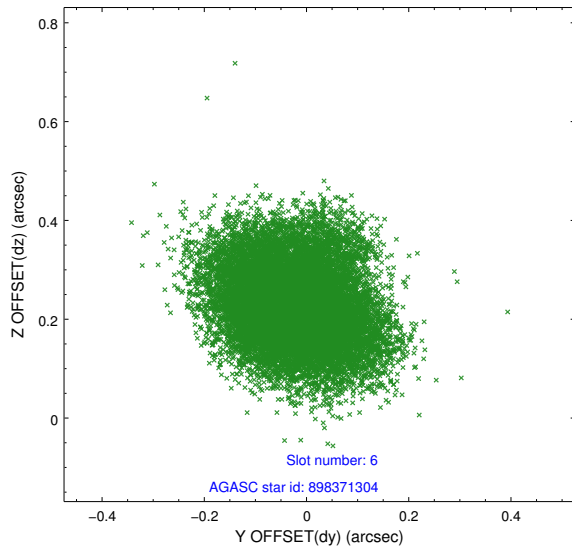
Time (s)



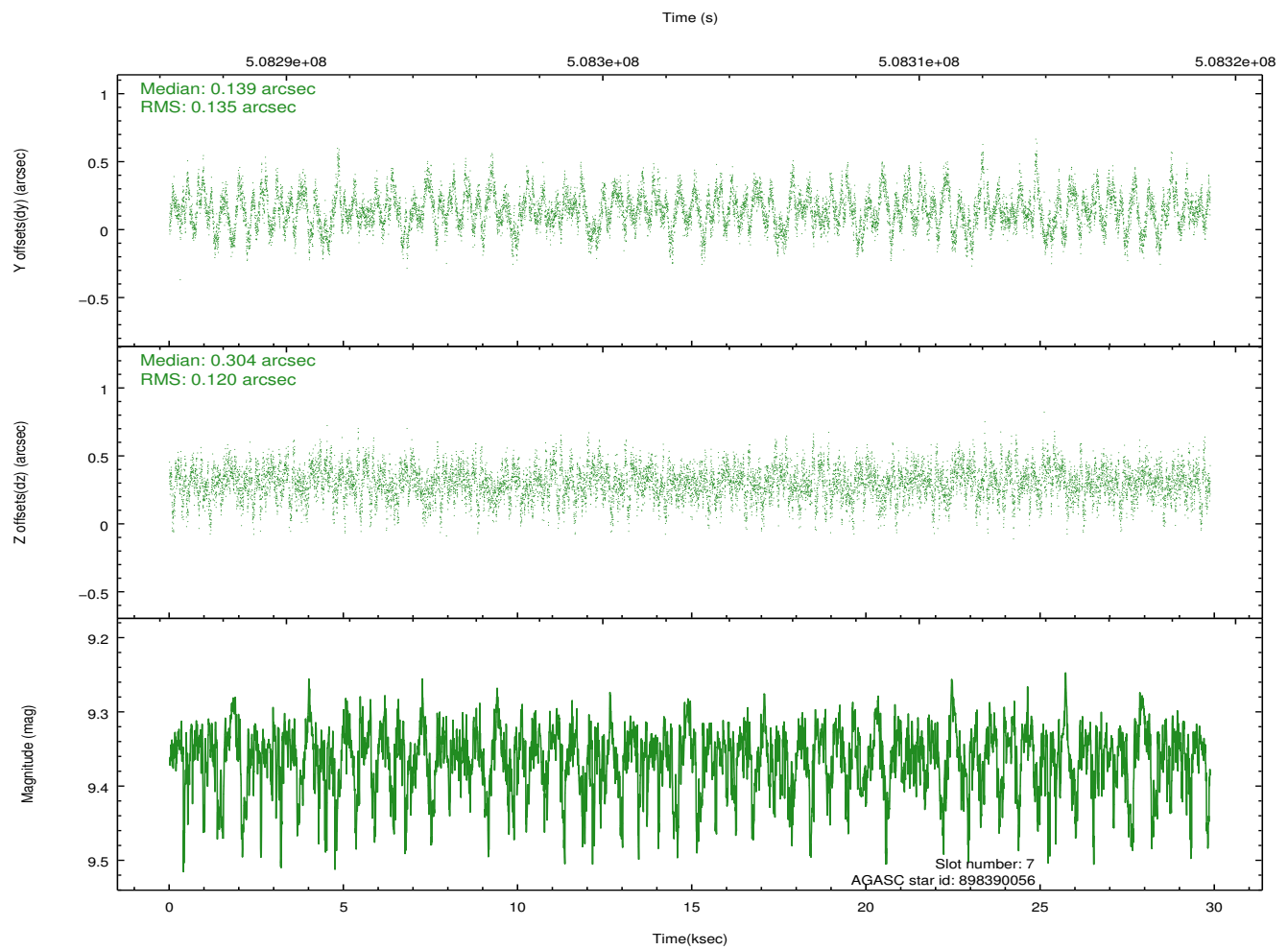
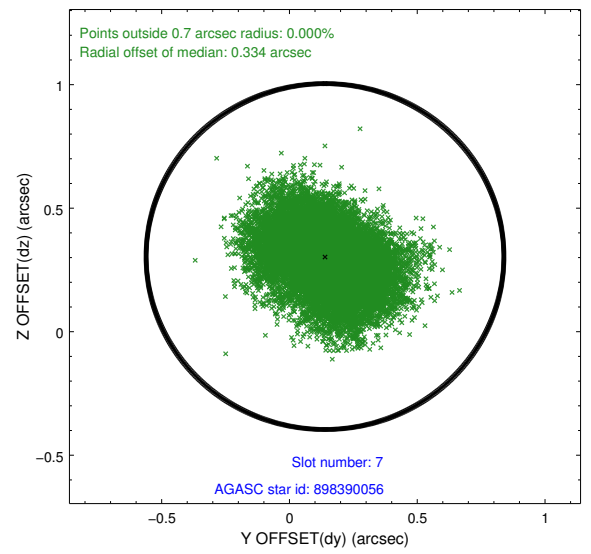
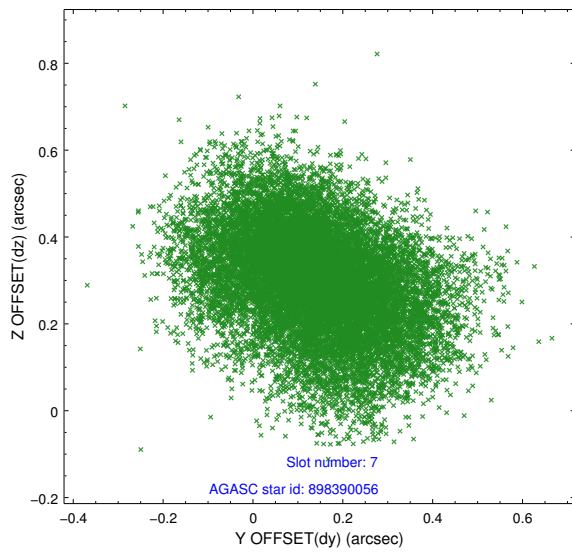
2.4.3 Slot 5



2.4.4 Slot 6

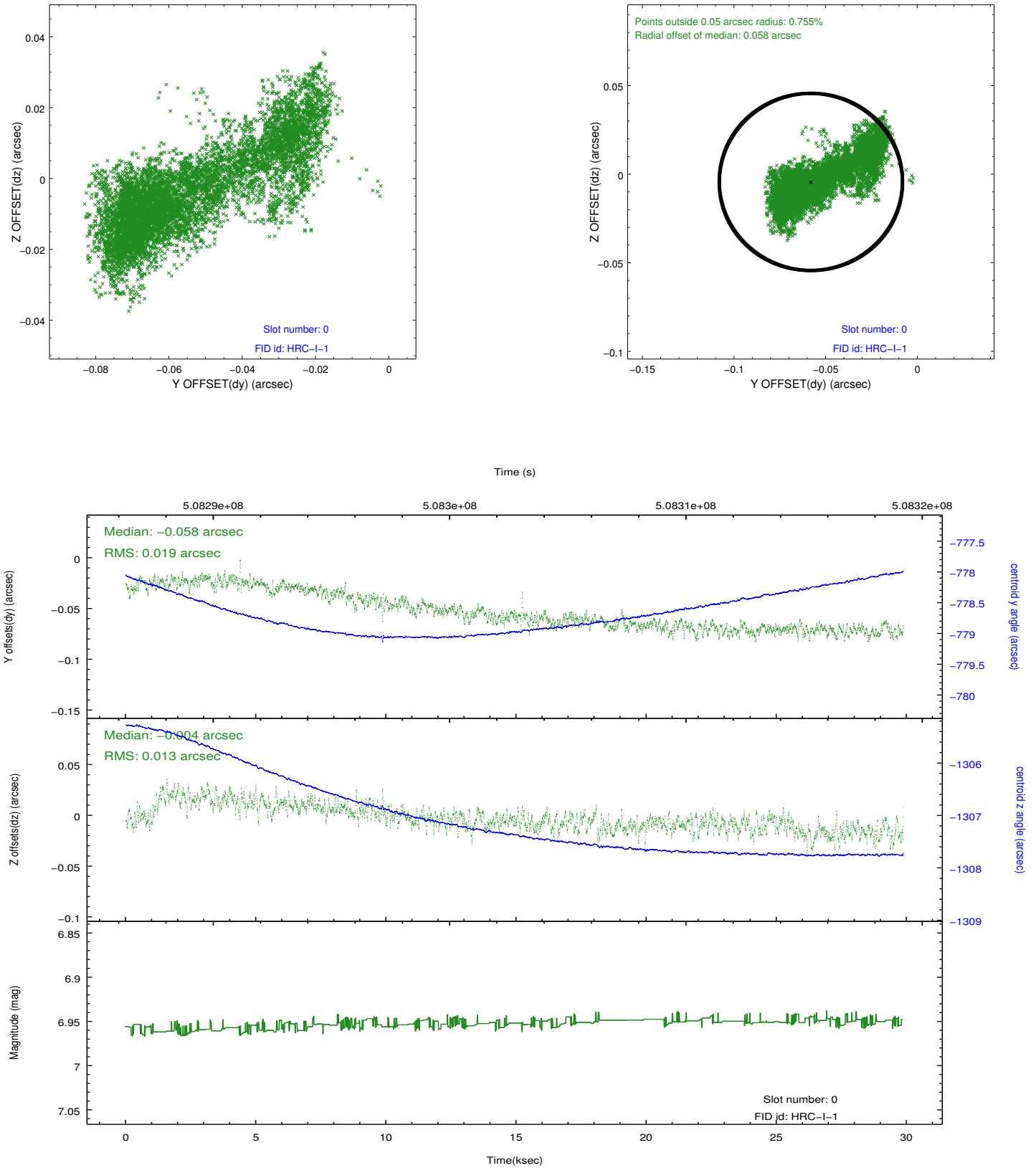


2.4.5 Slot 7

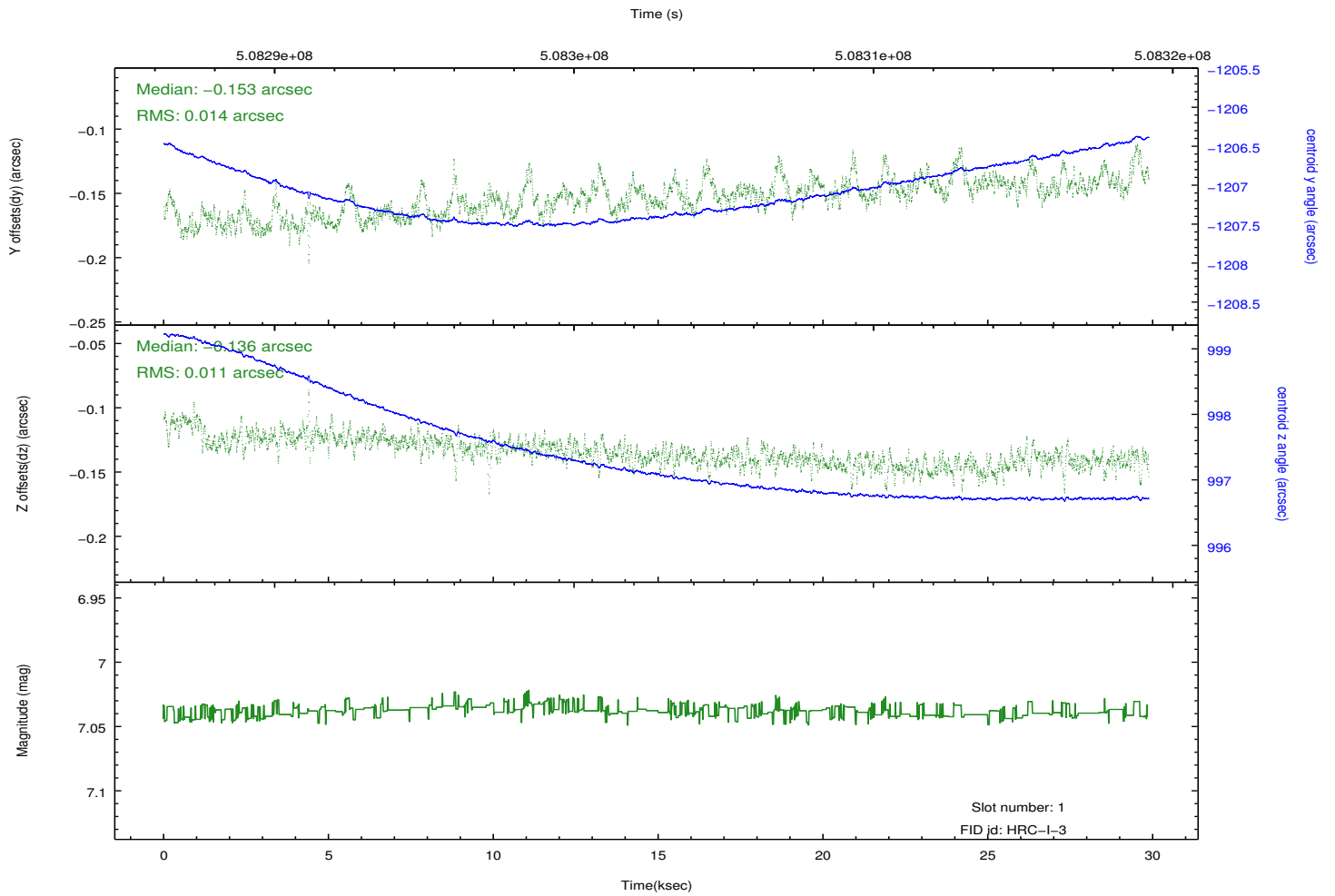
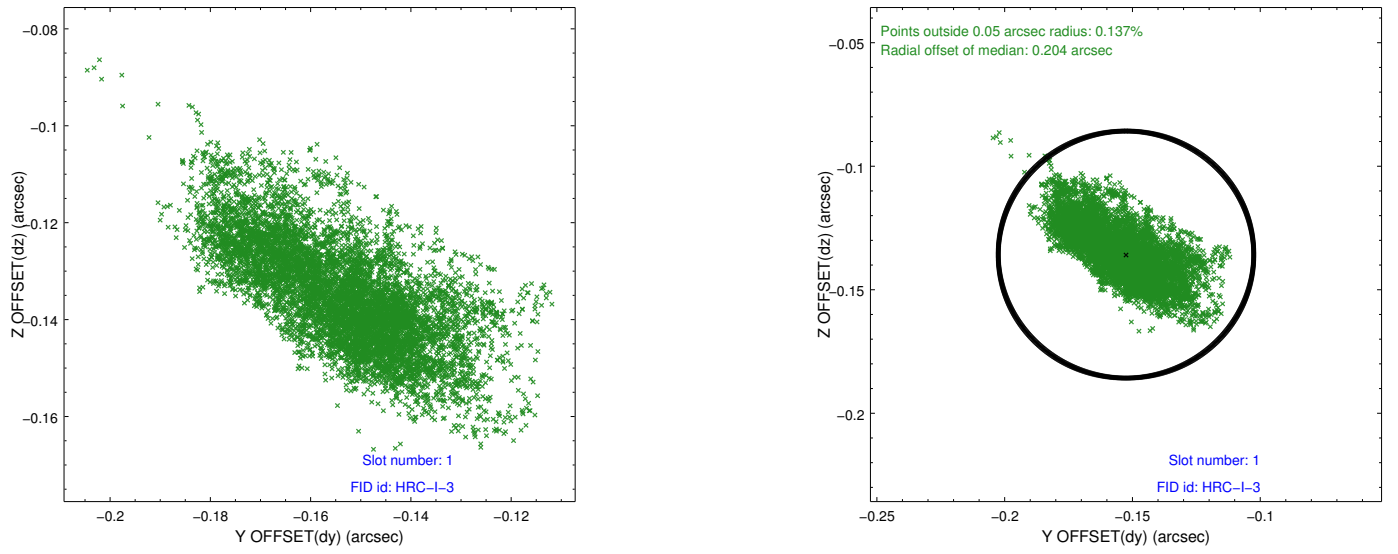


2.5 FID Slots

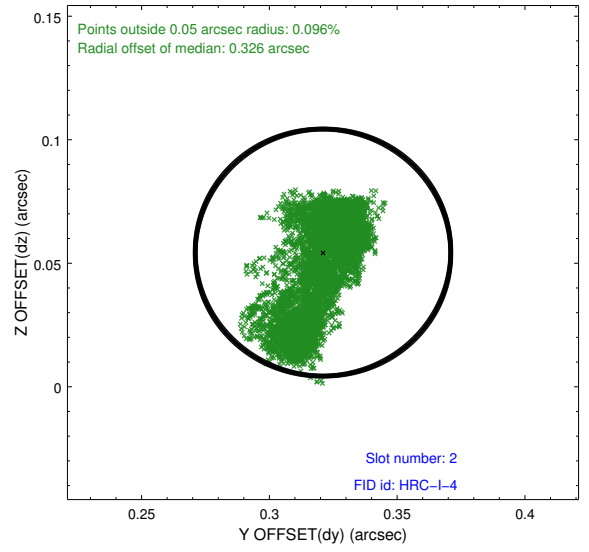
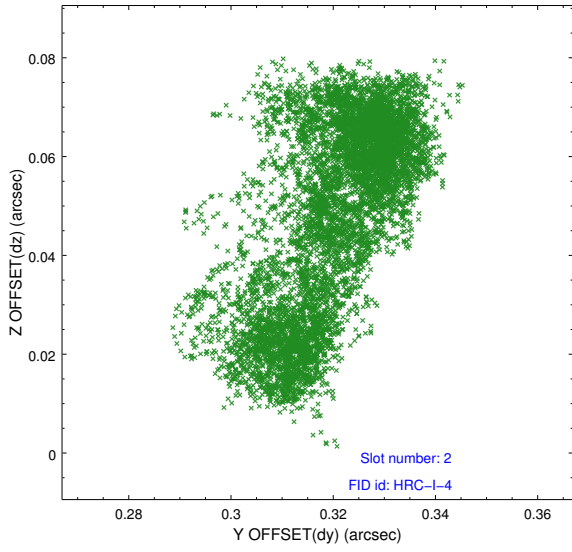
2.5.1 Slot 0



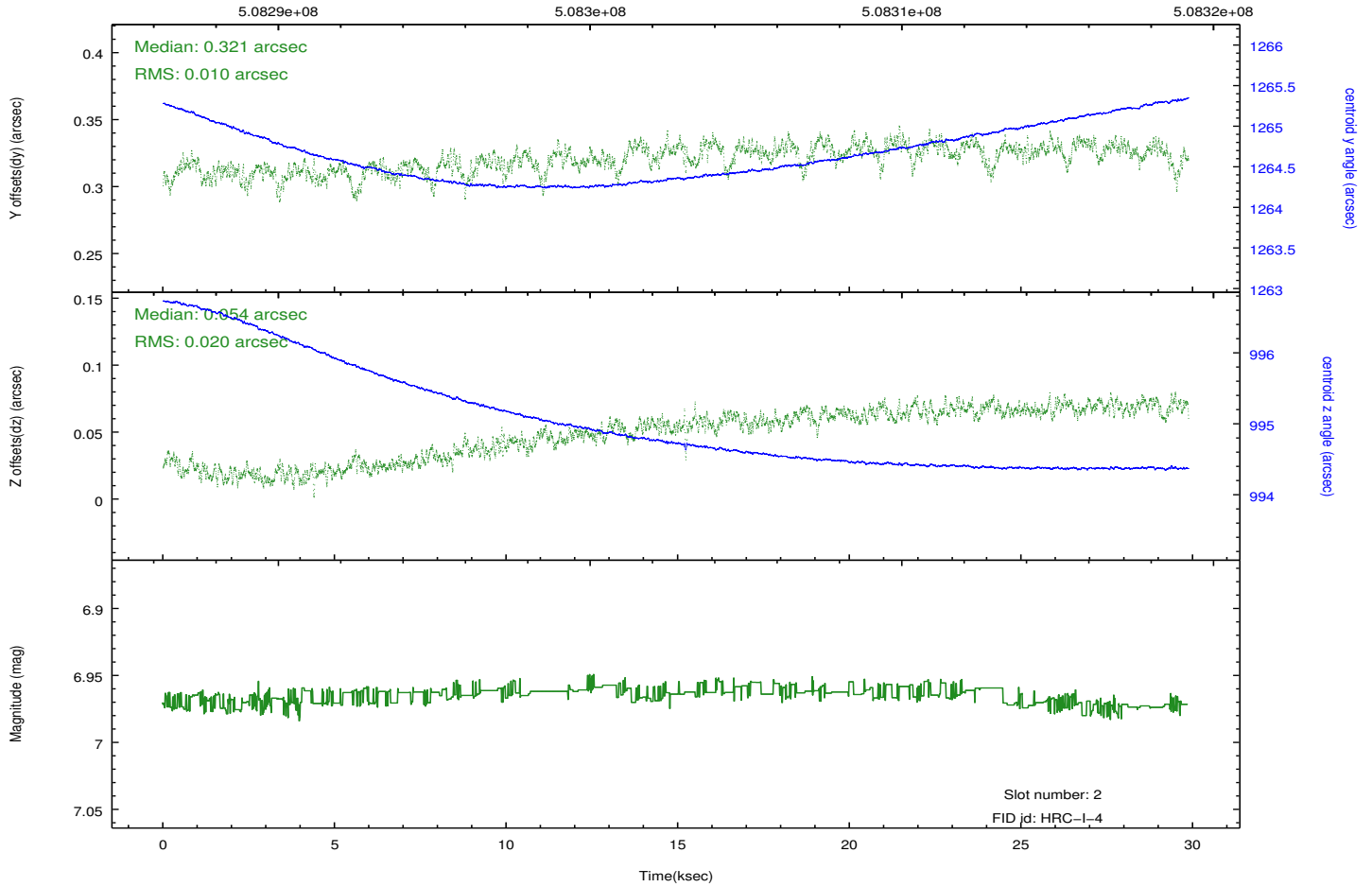
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2015.06.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 29.873370390117 |

A.2 Comments