

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13014 - L2 Version 2
Chandra X-Ray Center

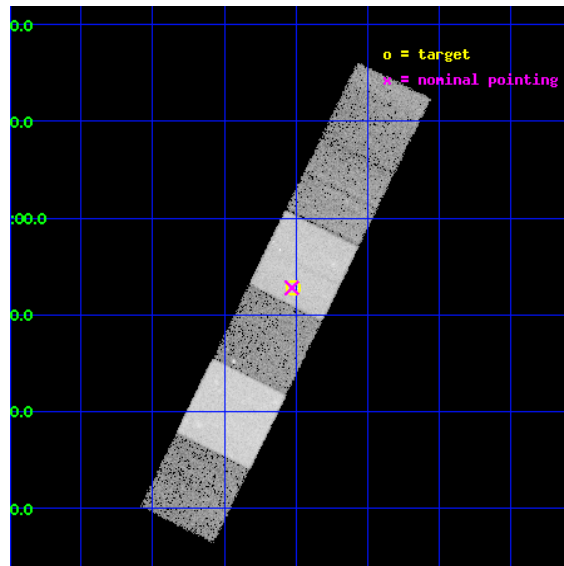
L2 Processing Date : Mar 2 2012

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | 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

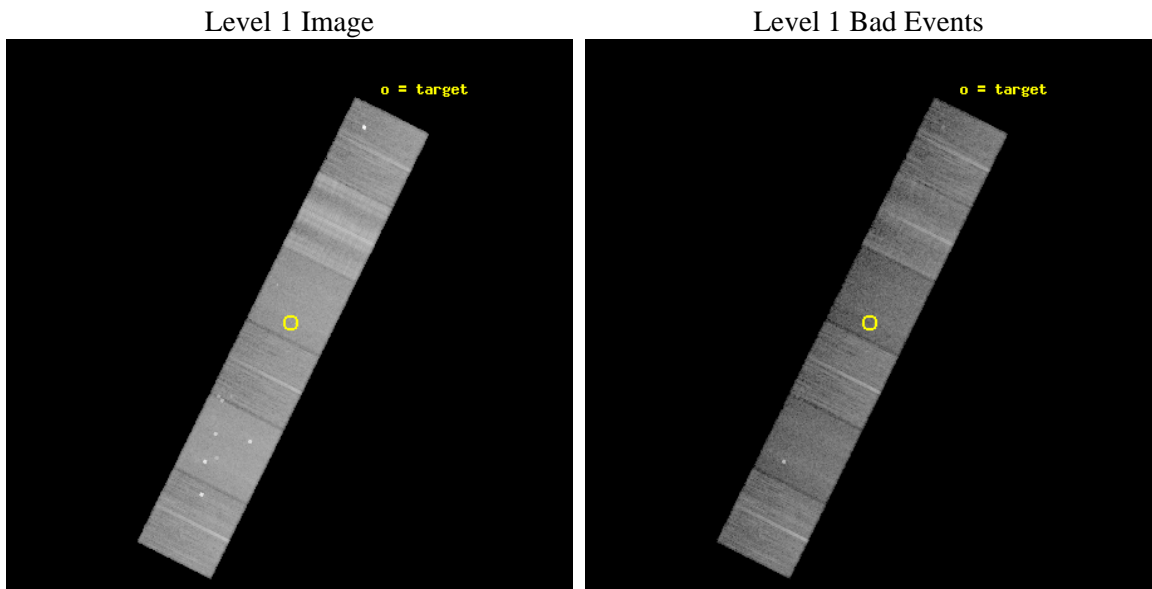
| | | |
|----------|--|---|
| seq_num | 600978 | Sequence number |
| obs_id | 13014 | Observation id |
| title | Chandra Observations of Local Lyman Break Galaxy Analogs | Proposal |
| observer | Dr. Antara Basu-Zych | Principal investigator |
| object | J002101.0+005248.1 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 5.254167 | Observer's specified target RA [deg] |
| dec_targ | 0.880028 | Observer's specified target Dec [deg] |
| ra_nom | 5.2571497104743 | Nominal RA [deg] |
| dec_nom | 0.87972285997116 | Nominal Dec [deg] |
| roll_nom | 296.34414937237 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 19411.199927747 | Sum of GTIs [s] |
| livetime | 19165.403626241 | Livetime [s] |
| ontime4 | 19411.199927747 | Sum of GTIs [s] |
| ontime5 | 19411.199927747 | Sum of GTIs [s] |
| ontime6 | 19411.199927747 | Sum of GTIs [s] |
| ontime7 | 19411.199927747 | Sum of GTIs [s] |
| ontime8 | 19411.199927747 | Sum of GTIs [s] |
| ontime9 | 19411.199927747 | Sum of GTIs [s] |
| l2events | 213442 | Number of level 2 events |



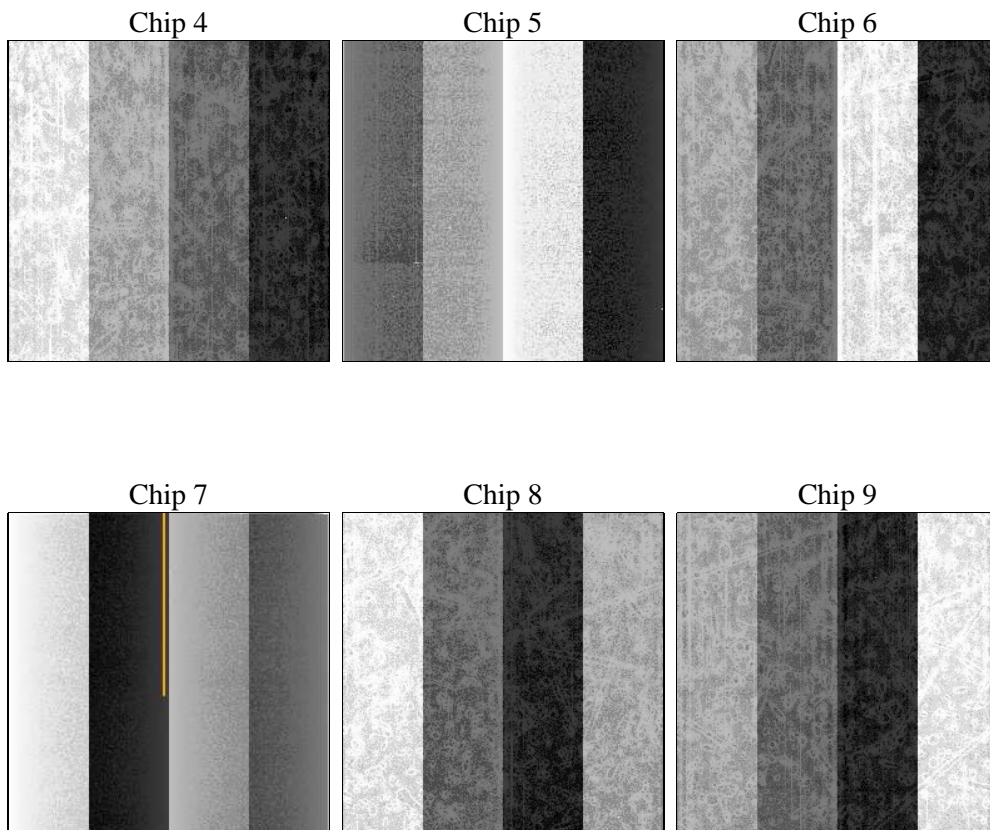
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 19454.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 19411.199927747 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime4 | 19411.199927747 | Sum of GTIs [s] |
| date | 2012-03-02T12:57:55 | Date and time of file creation | ontime5 | 19411.199927747 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 19411.199927747 | Sum of GTIs [s] |
| | | | ontime7 | 19411.199927747 | Sum of GTIs [s] |
| | | | ontime8 | 19411.199927747 | Sum of GTIs [s] |
| | | | ontime9 | 19411.199927747 | Sum of GTIs [s] |
| | | | l1events | 1046377 | Number of level 1 events |

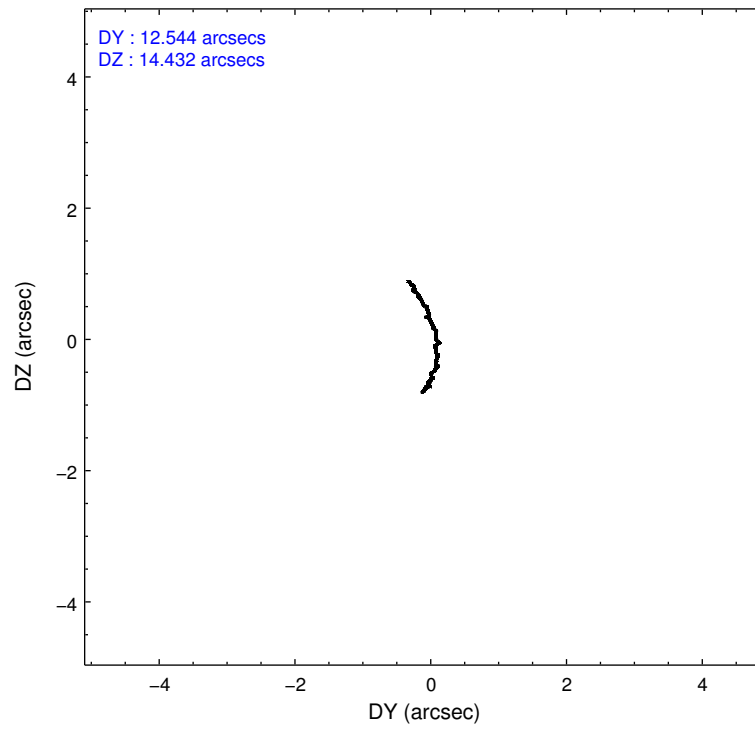
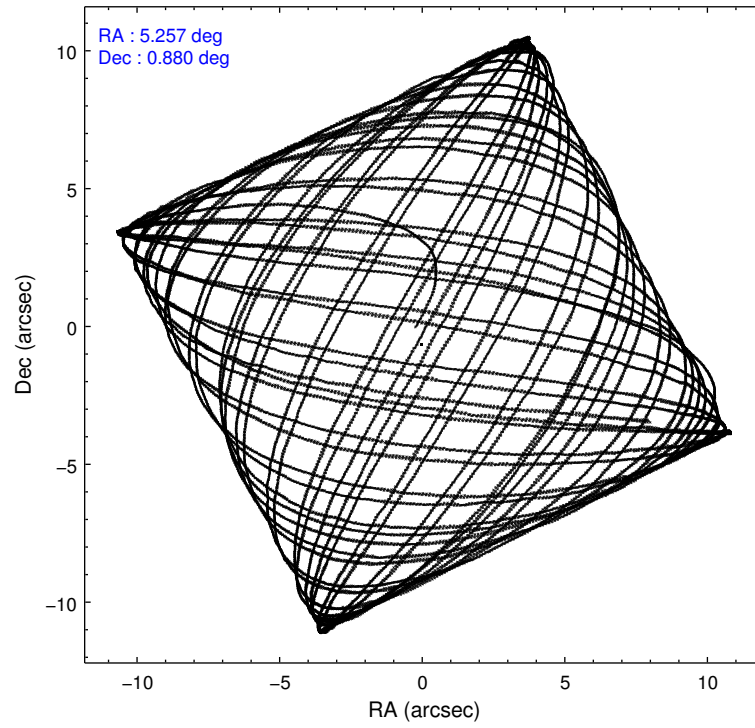
2.1.4 Events

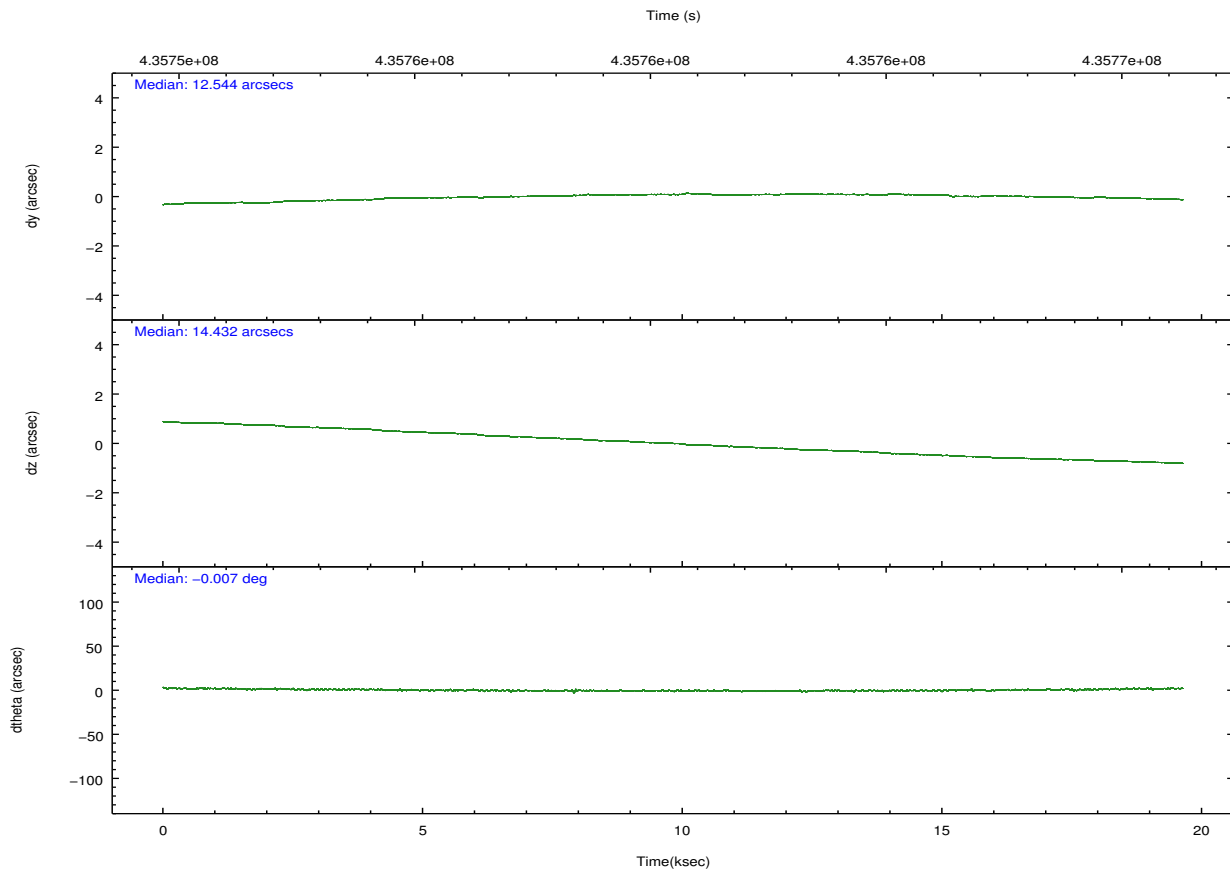
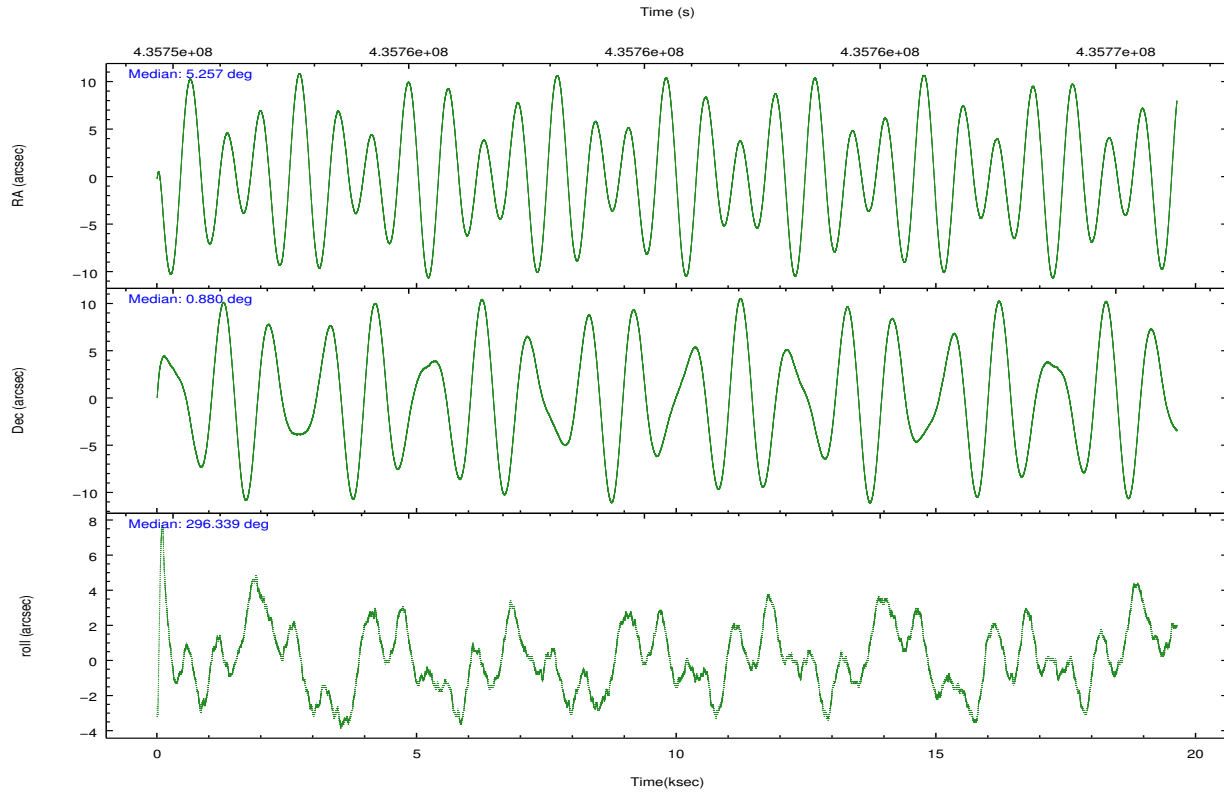
| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|-------|--------|-------|--------|--------|
| level 1 events | 159815 | 203199 | 141314 | 160279 | 237094 | 144676 | grade 0 events | 11320 | 13480 | 5792 | 6597 | 26437 | 5839 |
| rejected events | 136799 | 101362 | 125320 | 88759 | 136055 | 120239 | | 7% | 6% | 4% | 4% | 11% | 4% |
| rejected % | 85% | 49% | 88% | 55% | 57% | 83% | grade 1 events | 174 | 473 | 98 | 246 | 265 | 75 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5588 | 30869 | 4098 | 15202 | 19799 | 12164 |
| | | | | | | | | 3% | 15% | 2% | 9% | 8% | 8% |
| | | | | | | | grade 3 events | 1702 | 4084 | 1453 | 6381 | 14153 | 1591 |
| | | | | | | | | 1% | 2% | 1% | 3% | 5% | 1% |
| | | | | | | | grade 4 events | 1547 | 3727 | 1470 | 6360 | 13048 | 1509 |
| | | | | | | | | 0% | 1% | 1% | 3% | 5% | 1% |
| | | | | | | | grade 5 events | 5994 | 15349 | 5800 | 16486 | 9568 | 6575 |
| | | | | | | | | 3% | 7% | 4% | 10% | 4% | 4% |
| | | | | | | | grade 6 events | 2875 | 49703 | 3184 | 36988 | 27614 | 3351 |
| | | | | | | | | 1% | 24% | 2% | 23% | 11% | 2% |
| | | | | | | | grade 7 events | 130615 | 85514 | 119419 | 72019 | 126210 | 113572 |
| | | | | | | | | 81% | 42% | 84% | 44% | 53% | 78% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 5.234211 | 5.257149710474323 | CCD I2 on | N | N |
| [deg] Pointing Dec | 0.894547 | 0.8797228599711636 | CCD I3 on | N | N |
| [deg] Pointing Roll | 296.187878 | 296.3441493723682 | CCD S0 on | O3 | Y |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | O2 | Y |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | Y | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | CCD S4 on | Y | Y |
| [s] Observation start time (MET) | 435750844.184000 | 435749714.81659 | CCD S5 on | O1 | Y |
| Observation start date | 2011-10-23T09:52:58 | 2011-10-23T09:35:14 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 435770298.184000 | 435771356.15523 | On-chip summing requested | N | N |
| Observation end date | 2011-10-23T15:17:12 | 2011-10-23T15:35:56 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect





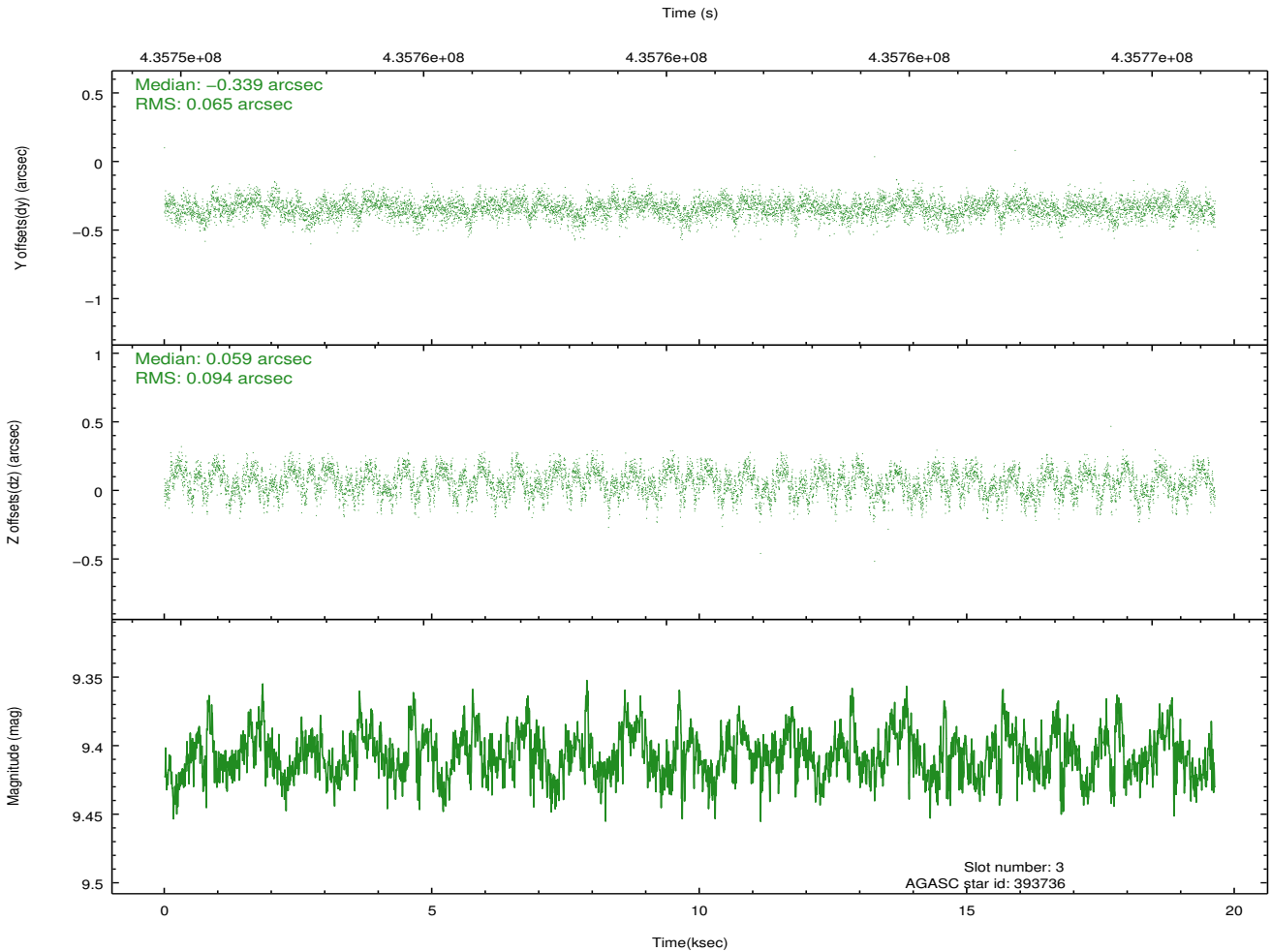
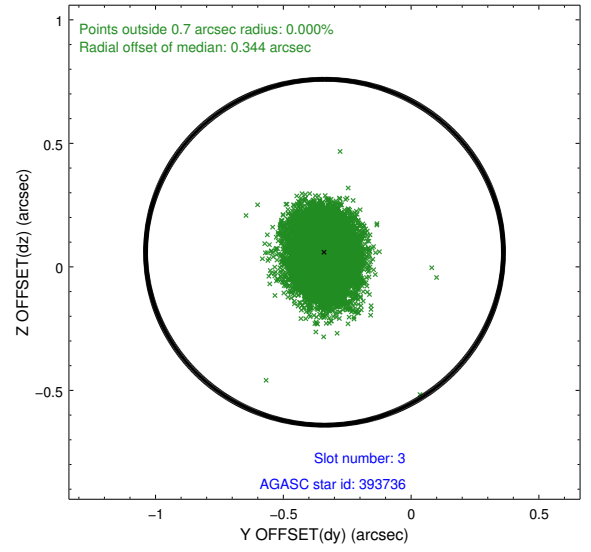
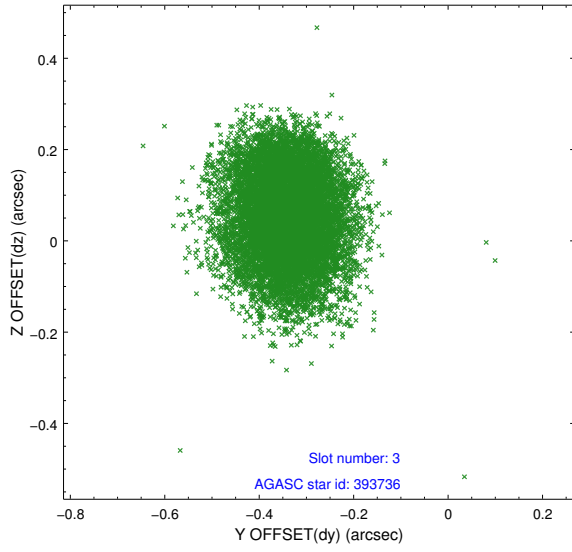
Slot Statistics

| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|----------|----------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.00 | 4790 | 0.129 | -0.055 | 0.012 | 0.018 | 0.000000 | 0.000000 | 930.78 | -1731.47 |
| 1 | FID | ACIS-S-2 | 6.91 | 4790 | -0.056 | -0.007 | 0.016 | 0.030 | 0.000000 | 0.000000 | -765.20 | -1736.20 |
| 2 | FID | ACIS-S-5 | 7.03 | 4790 | -0.096 | 0.065 | 0.012 | 0.020 | 0.000000 | 0.000000 | -1818.72 | 165.95 |
| 3 | GUIDE | 393736 | 9.41 | 9567 | -0.339 | 0.059 | 0.124 | 0.194 | 5.451317 | 0.917193 | 272.29 | 737.41 |
| 4 | GUIDE | 396608 | 9.17 | 9568 | -0.280 | 0.158 | 0.125 | 0.198 | 5.241637 | 1.191792 | -947.27 | 496.71 |
| 5 | GUIDE | 397288 | 9.71 | 9568 | -0.169 | 0.301 | 0.128 | 0.202 | 5.004254 | 0.991266 | -677.23 | -588.70 |
| 6 | GUIDE | 399432 | 9.80 | 9556 | -0.174 | 0.102 | 0.169 | 0.262 | 5.118216 | 0.519666 | 1027.88 | -969.56 |
| 7 | GUIDE | 399632 | 9.72 | 9574 | 0.968 | -0.618 | 0.169 | 0.276 | 5.120577 | 0.124168 | 2310.15 | -1591.54 |

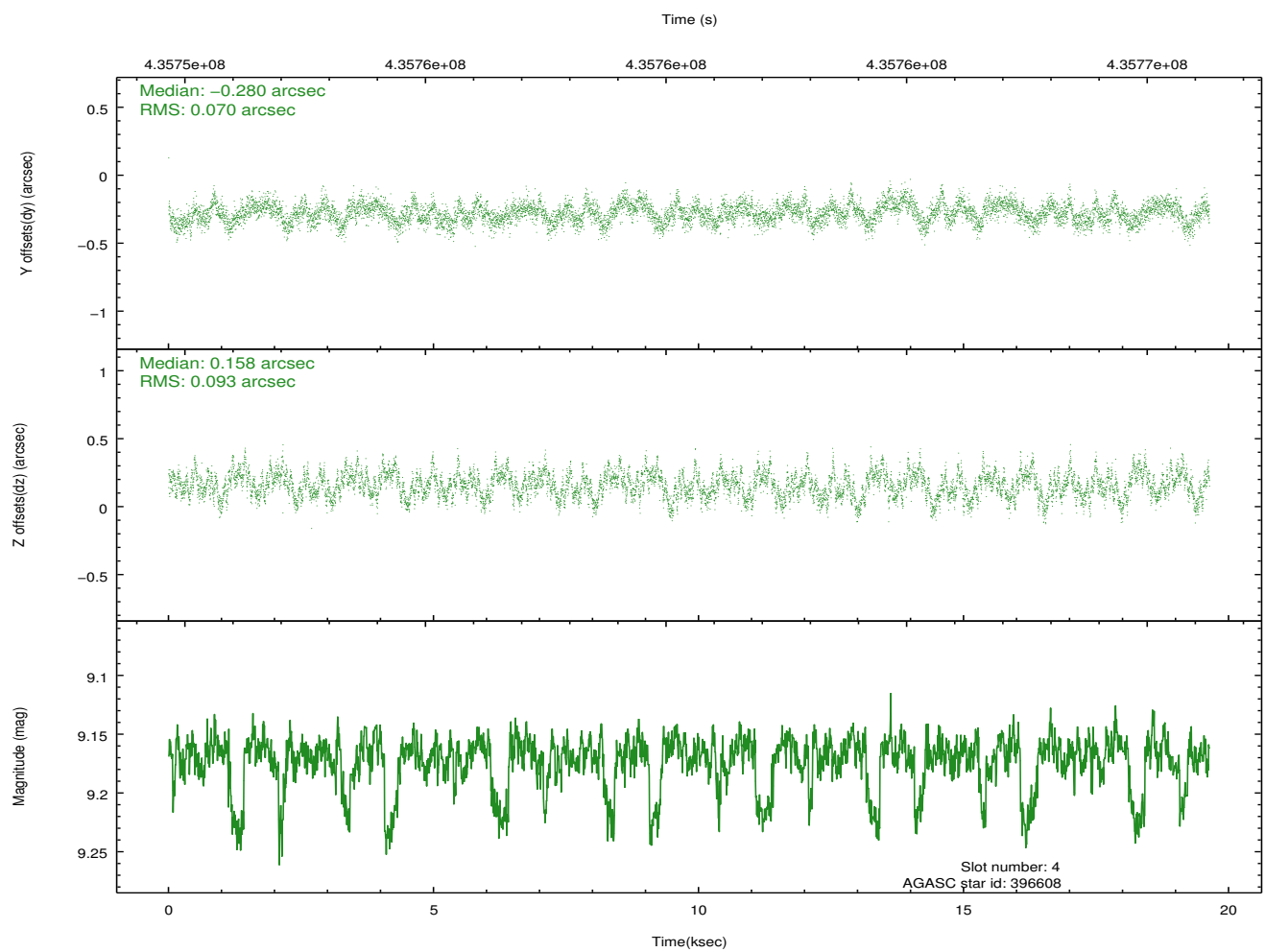
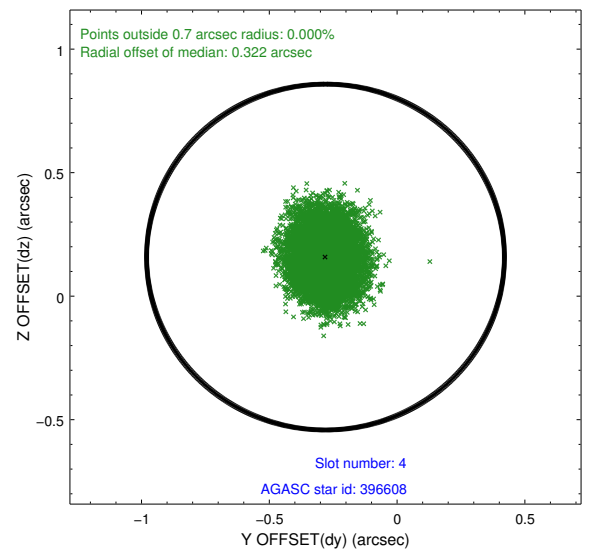
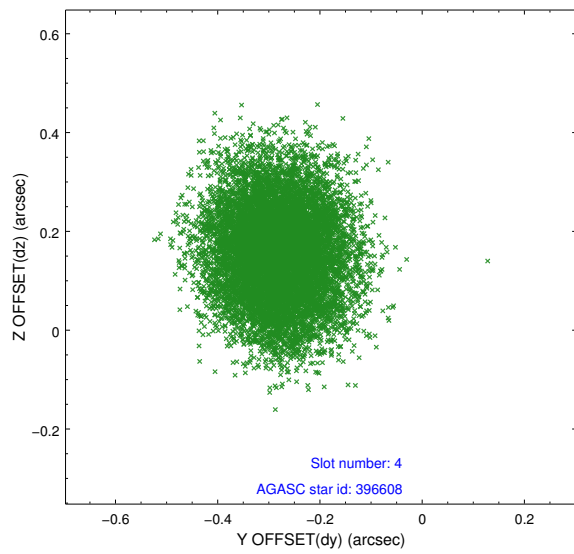
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2.4 Star Slots

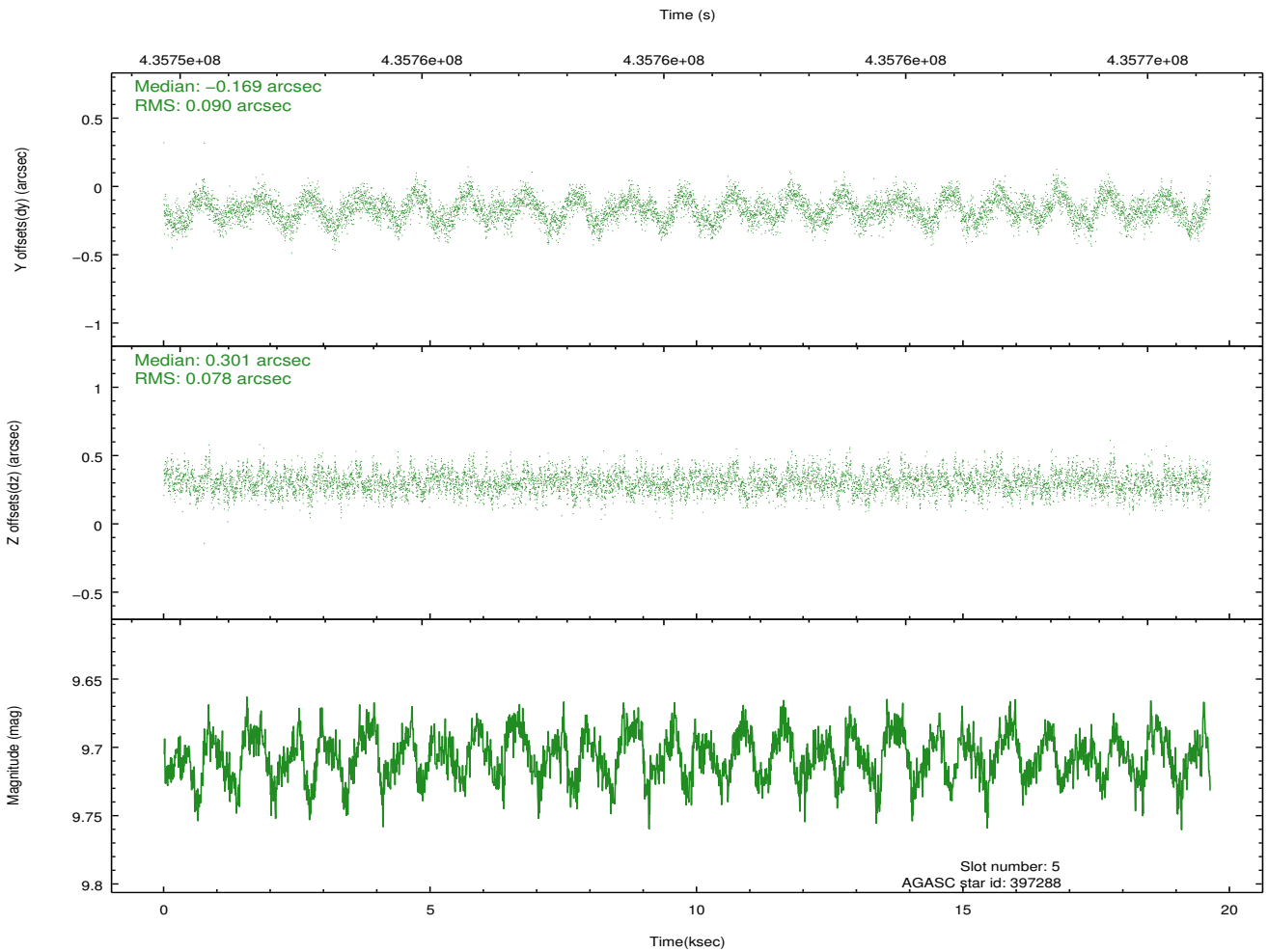
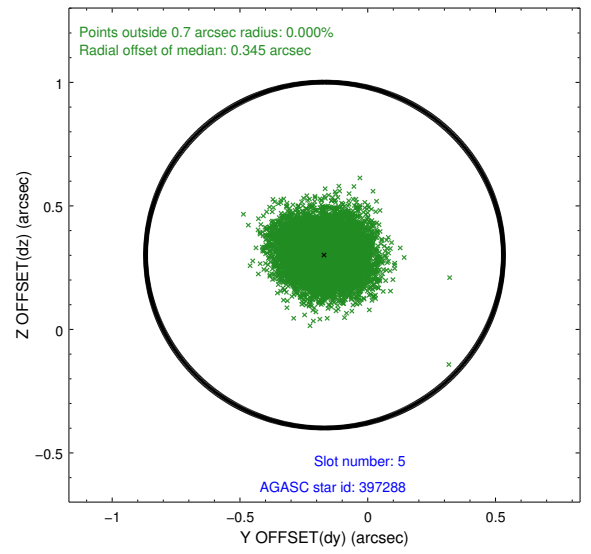
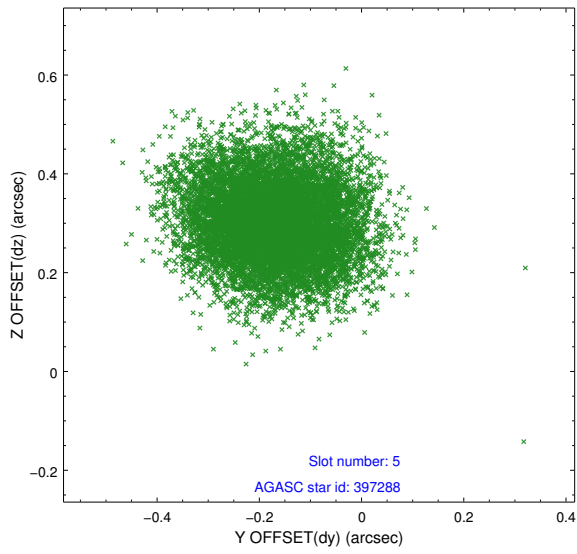
2.4.1 Slot 3



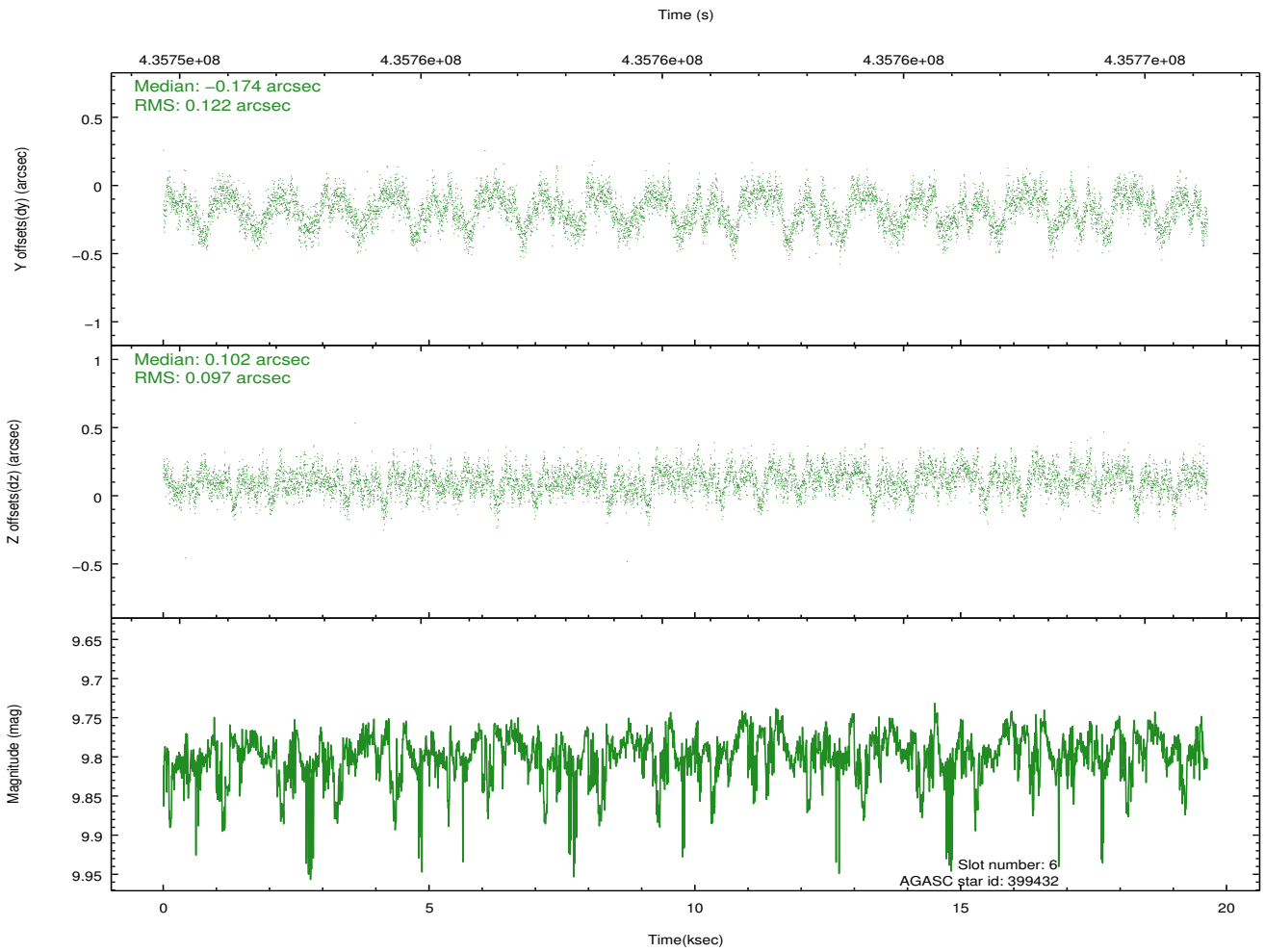
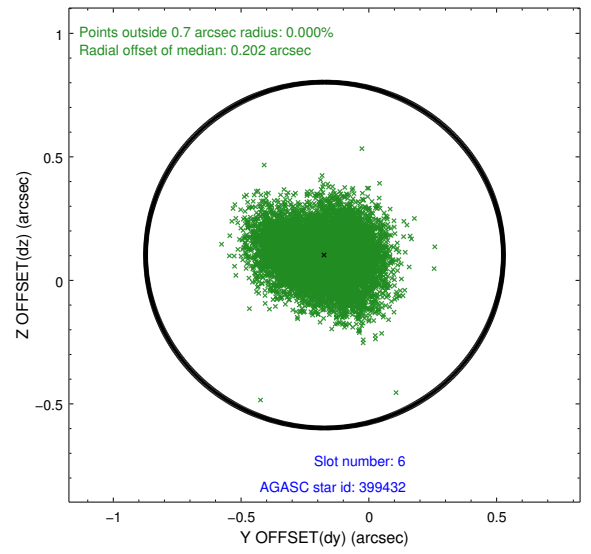
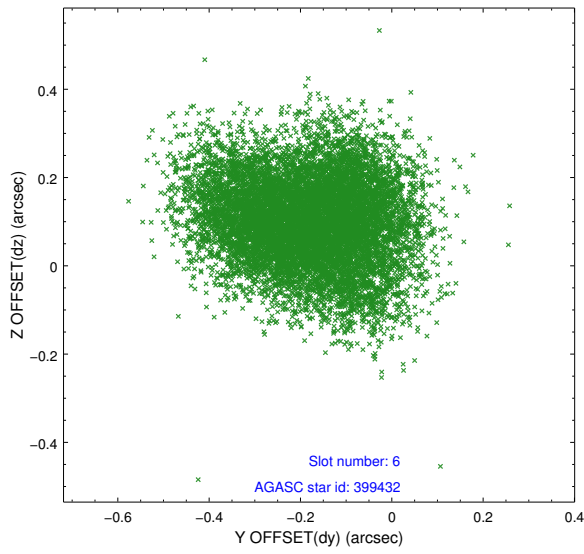
2.4.2 Slot 4



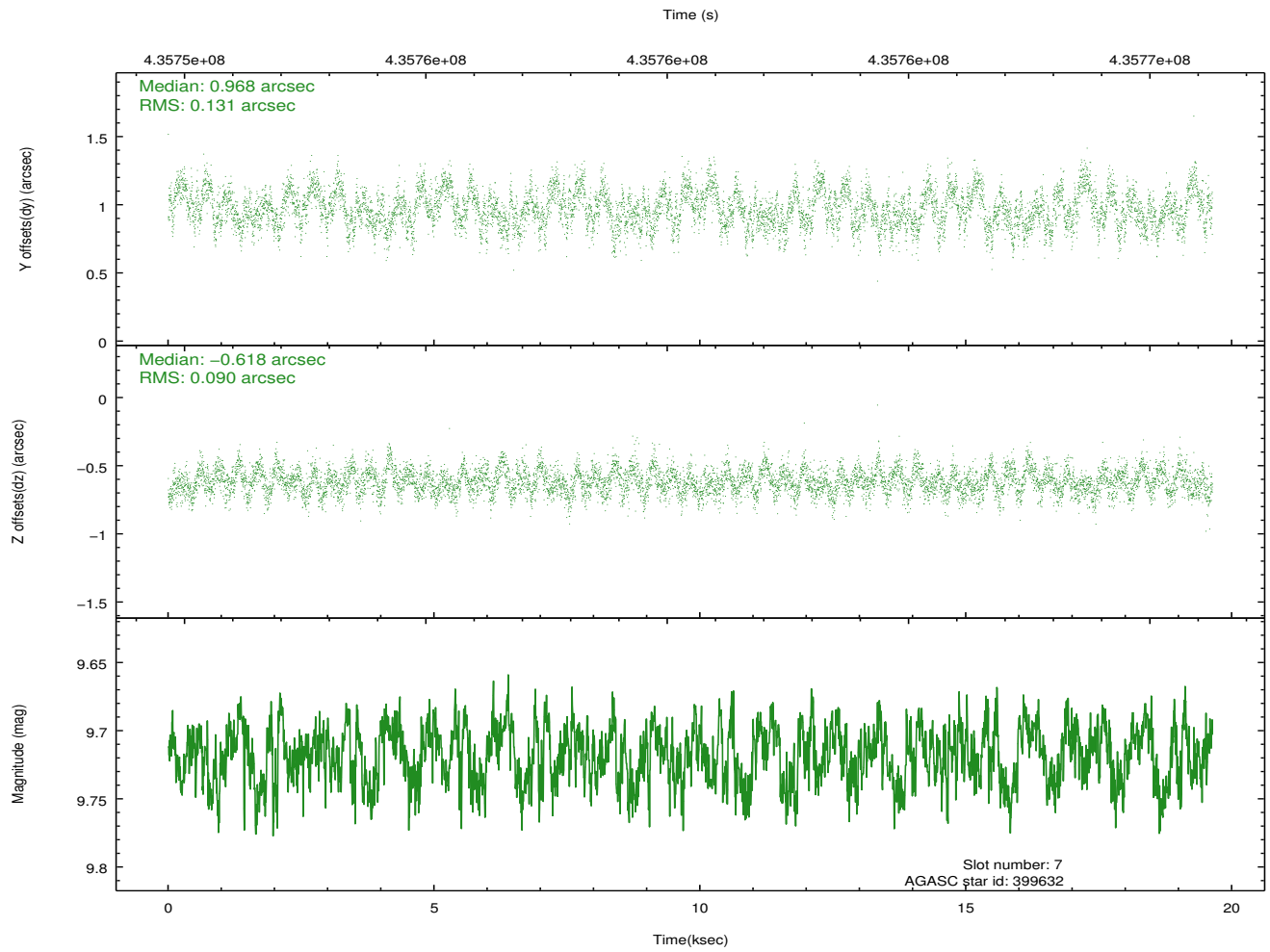
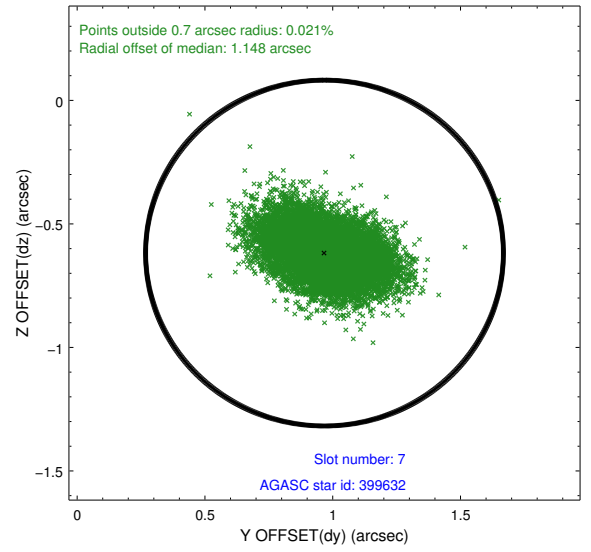
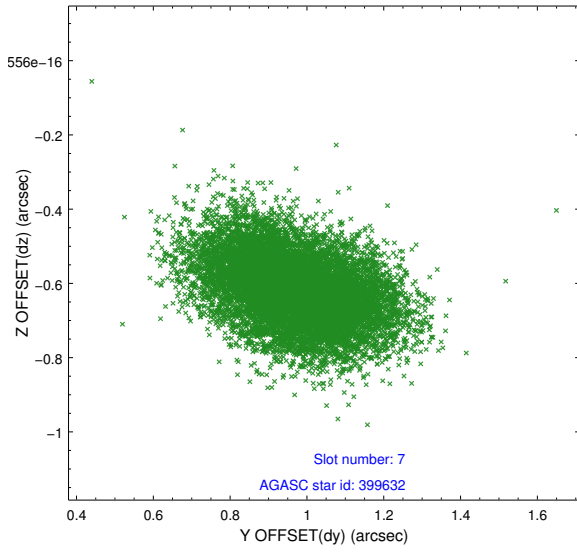
2.4.3 Slot 5



2.4.4 Slot 6

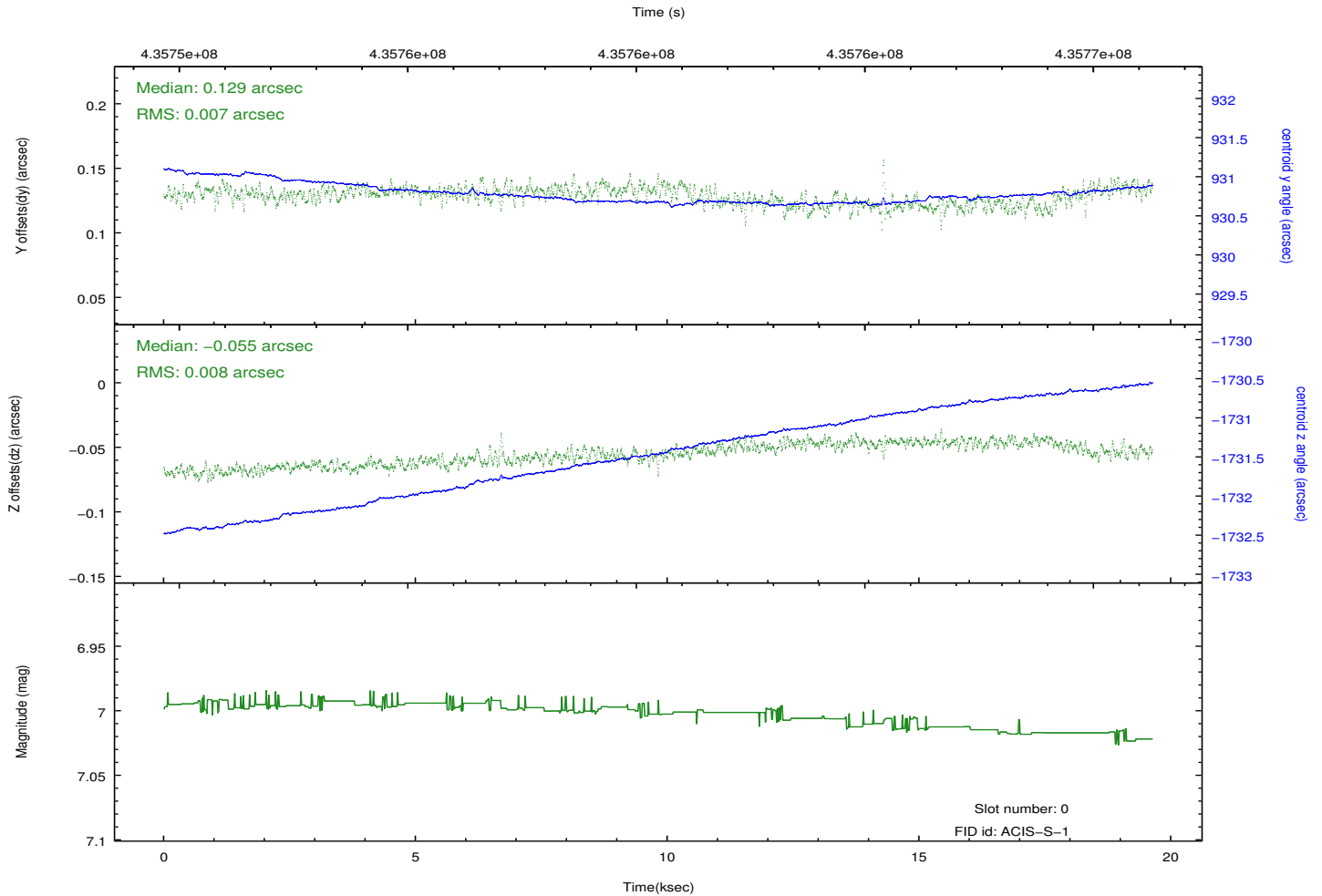
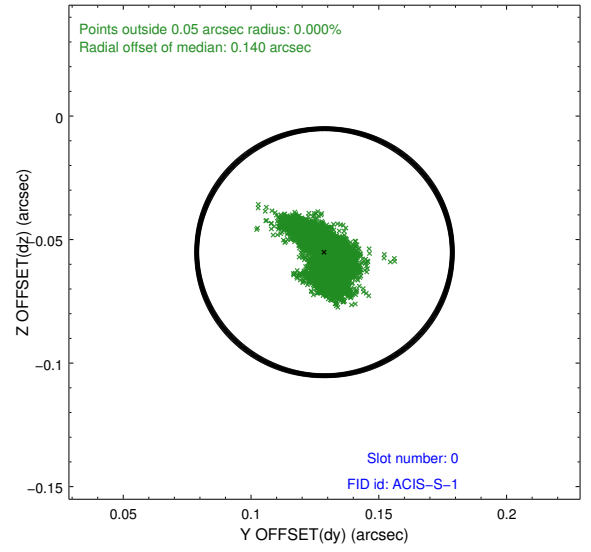
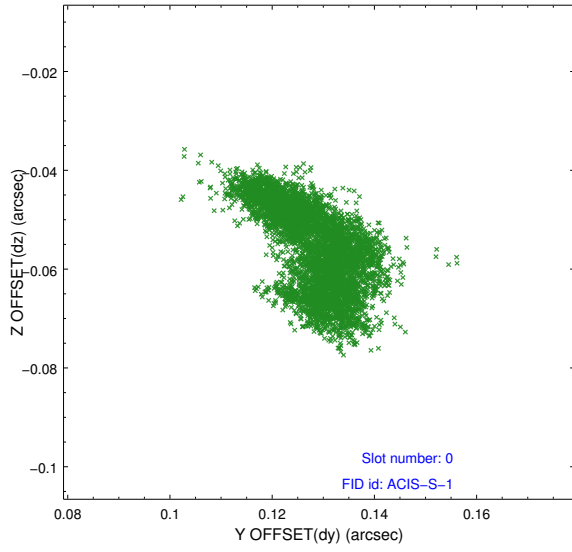


2.4.5 Slot 7

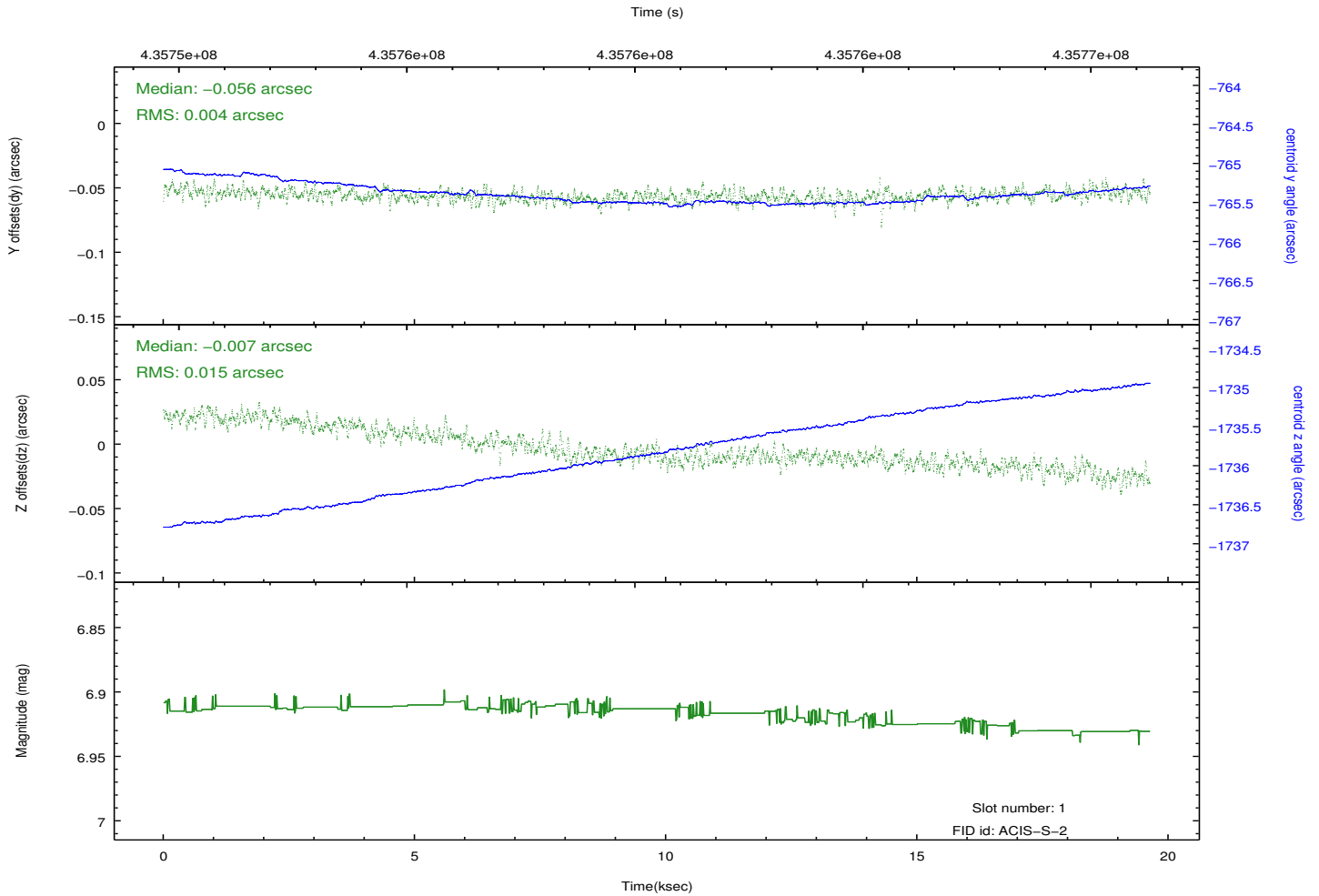
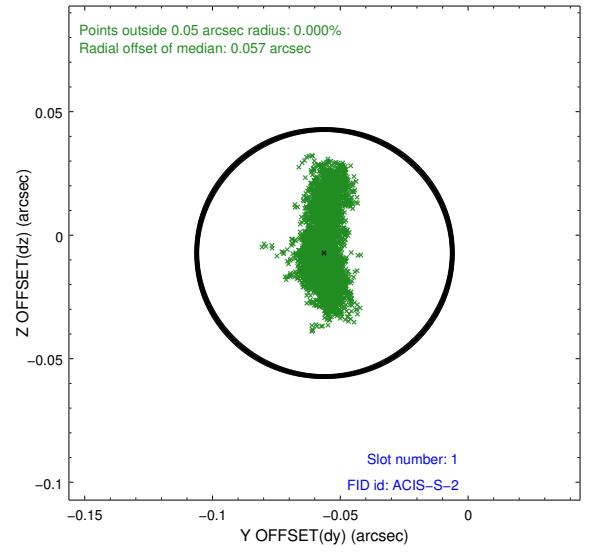
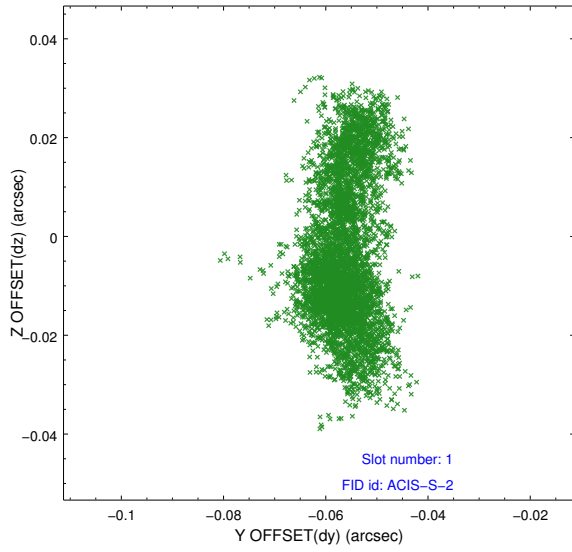


2.5 FID Slots

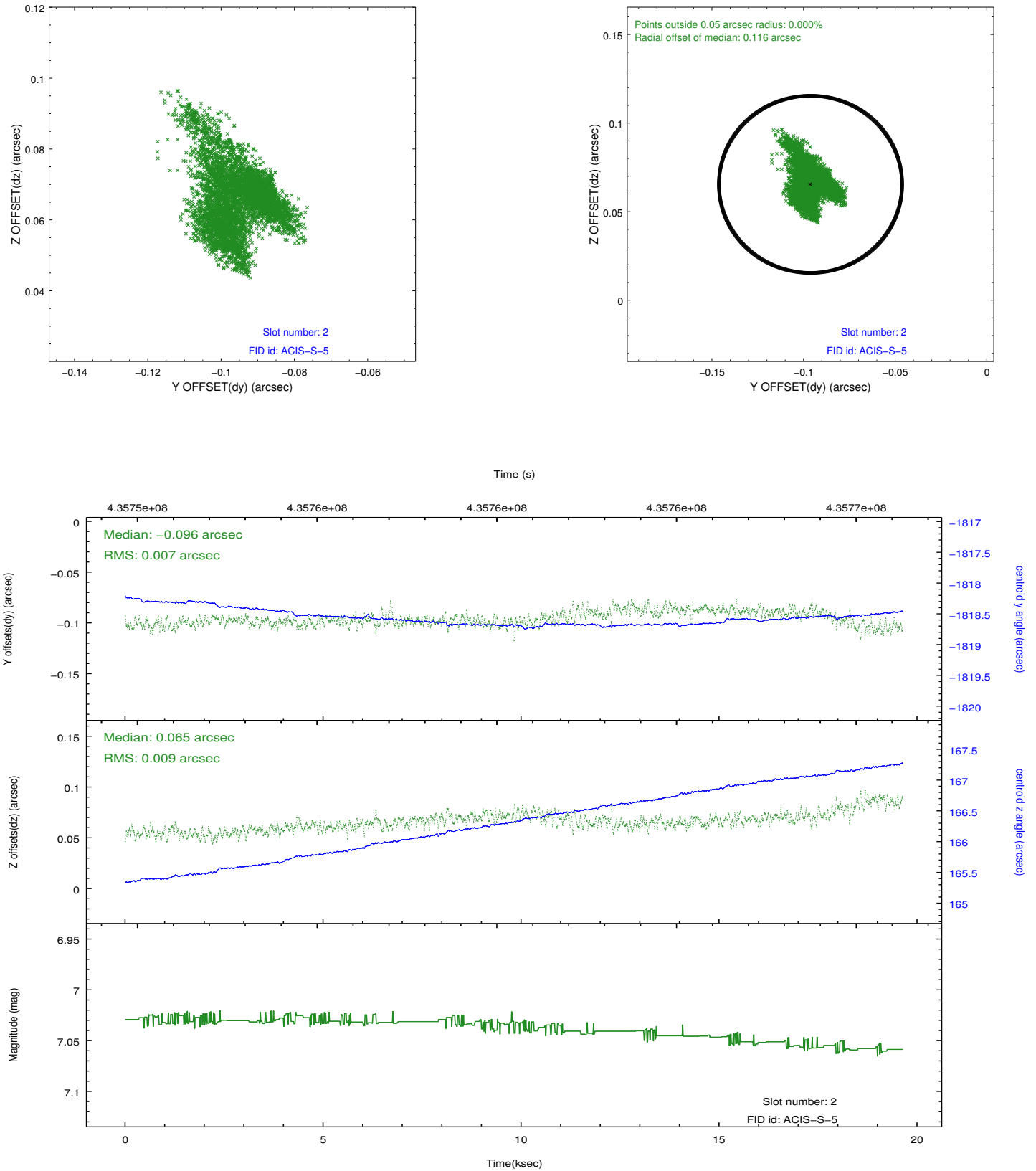
2.5.1 Slot 0



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) | 2012.03.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 19.411199927747 |

A.2 Comments

Joint Proposal: NRAO