

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4317 - L2 Version 3
Chandra X-Ray Center

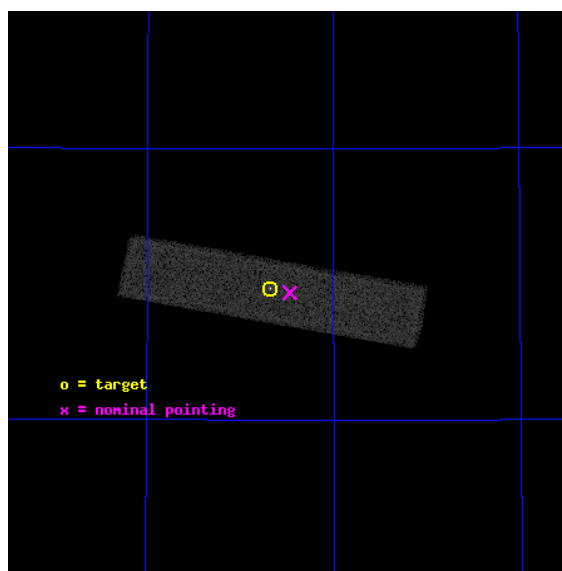
L2 Processing Date : Nov 2 2012

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1 Front

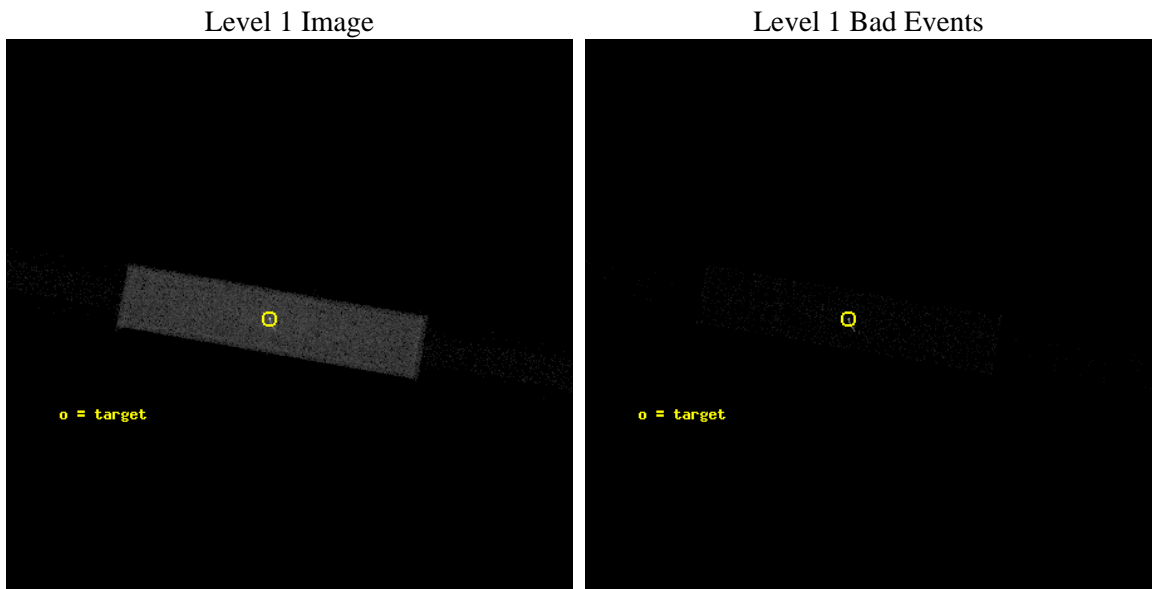
| | | |
|----------|---|---------------------------------------|
| seq_num | 290277 | Sequence number |
| obs_id | 4317 | Observation id |
| title | AO4B CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.11719753332 | Nominal RA [deg] |
| dec_nom | 45.734885939401 | Nominal Dec [deg] |
| roll_nom | 189.89306701791 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1142.1062988937 | [s] |
| livetime | 1136.3468735293 | Ontime multiplied by DTCOR |
| l2events | 40506 | 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 | 1142.1062988937 | [s] |
| caldsver | 4.5.2 | | l1events | 66776 | Number of level 1 events |
| date | 2012-11-02T16:32:31 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

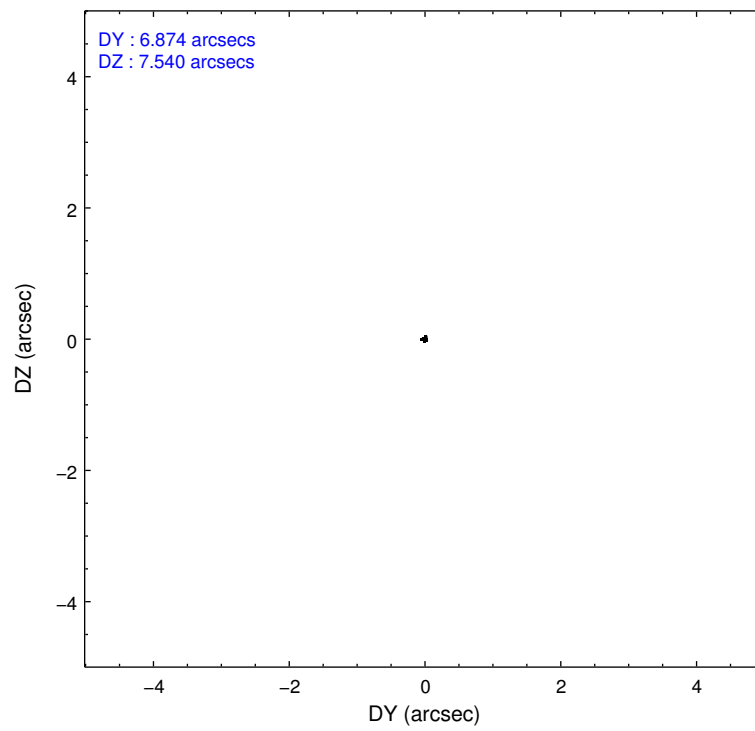
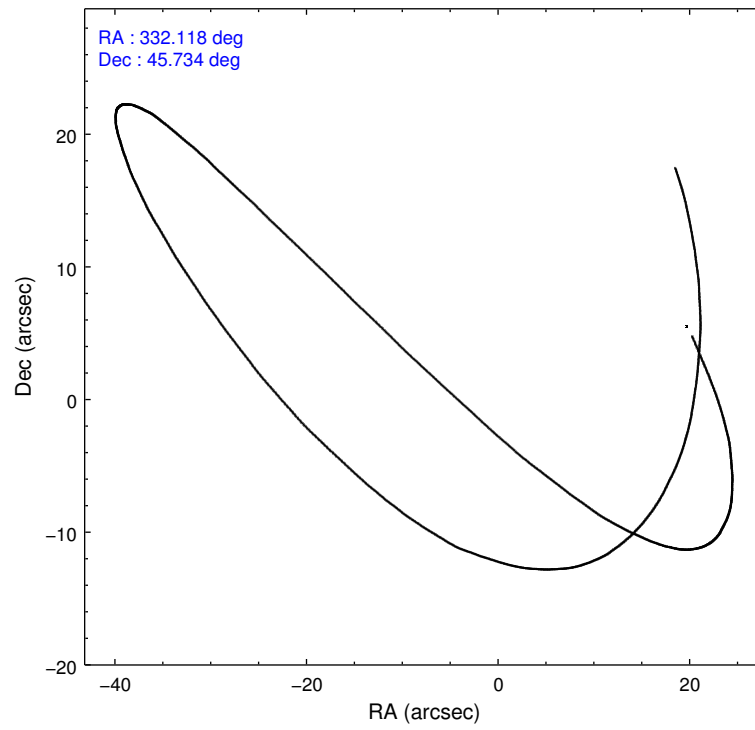
Level 1 Events

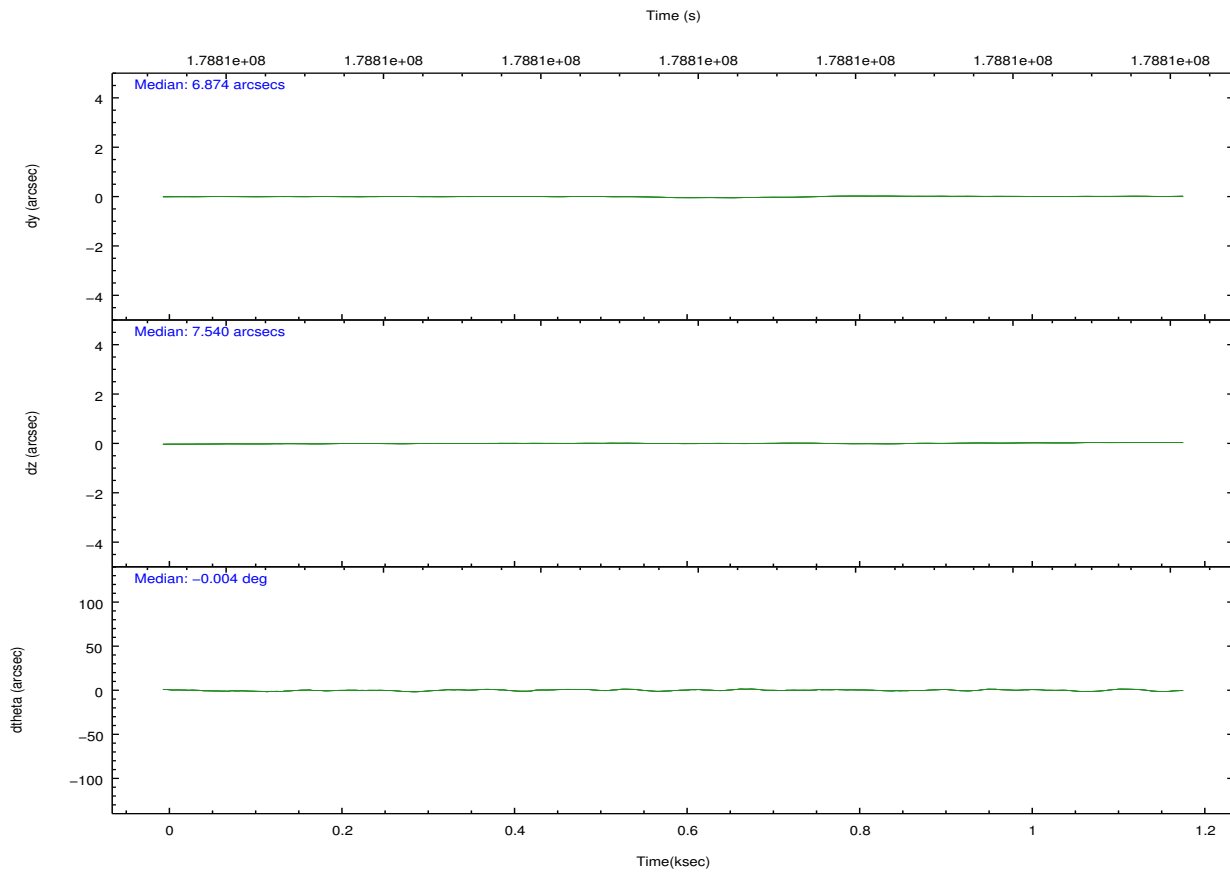
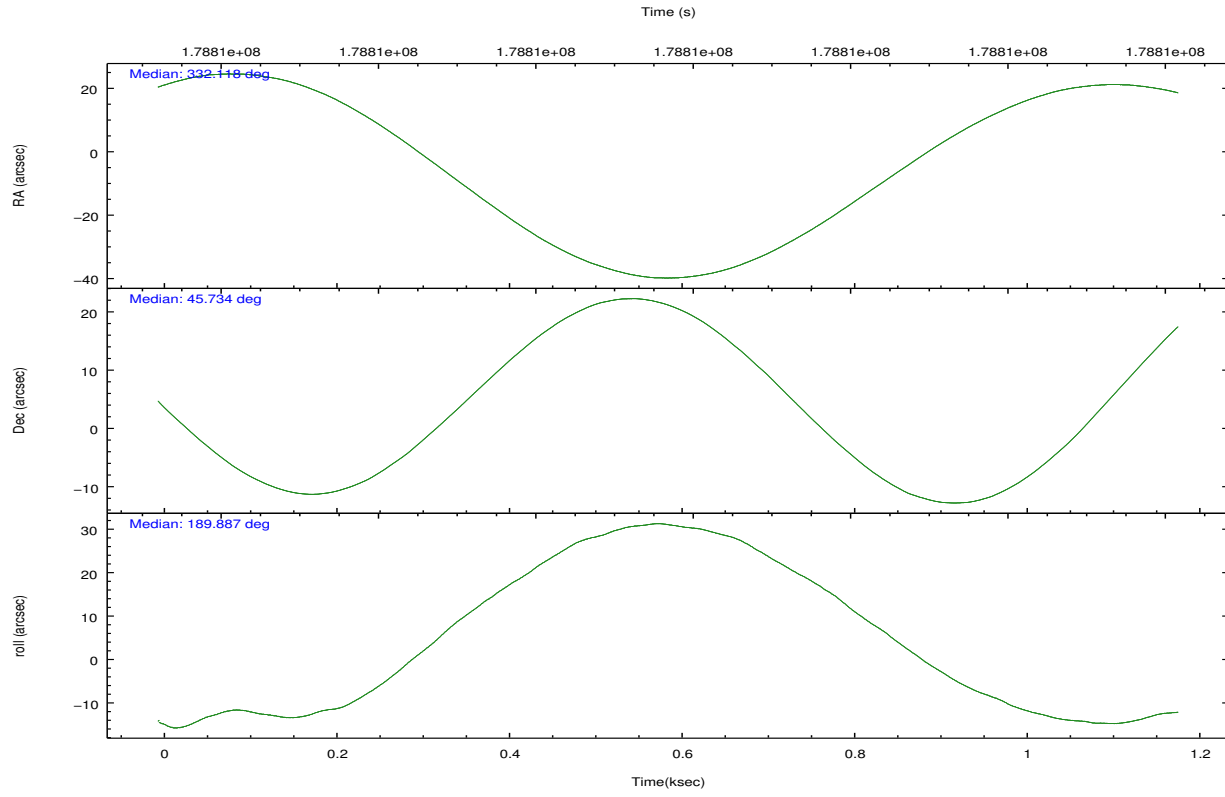
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 1023 | 64681 | 1072 |
| rejected events | 1023 | 14887 | 1072 |
| rejected % | 100% | 23% | 100% |

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 | 332.146406 | 332.1171975333178 | | | |
| [deg] Pointing Dec | 45.755354 | 45.73488593940128 | | | |
| [deg] Pointing Roll | 189.804796 | 189.8930670179084 | | | |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 178806958.184000 | 178806582.69491 | | | |
| Observation start date | 2003-09-01T12:34:54 | 2003-09-01T12:29:42 | | | |
| [s] Observation end time (MET) | 178807958.184000 | 178808092.51998 | | | |
| Observation end date | 2003-09-01T12:51:34 | 2003-09-01T12:54:52 | | | |

2.3 Aspect



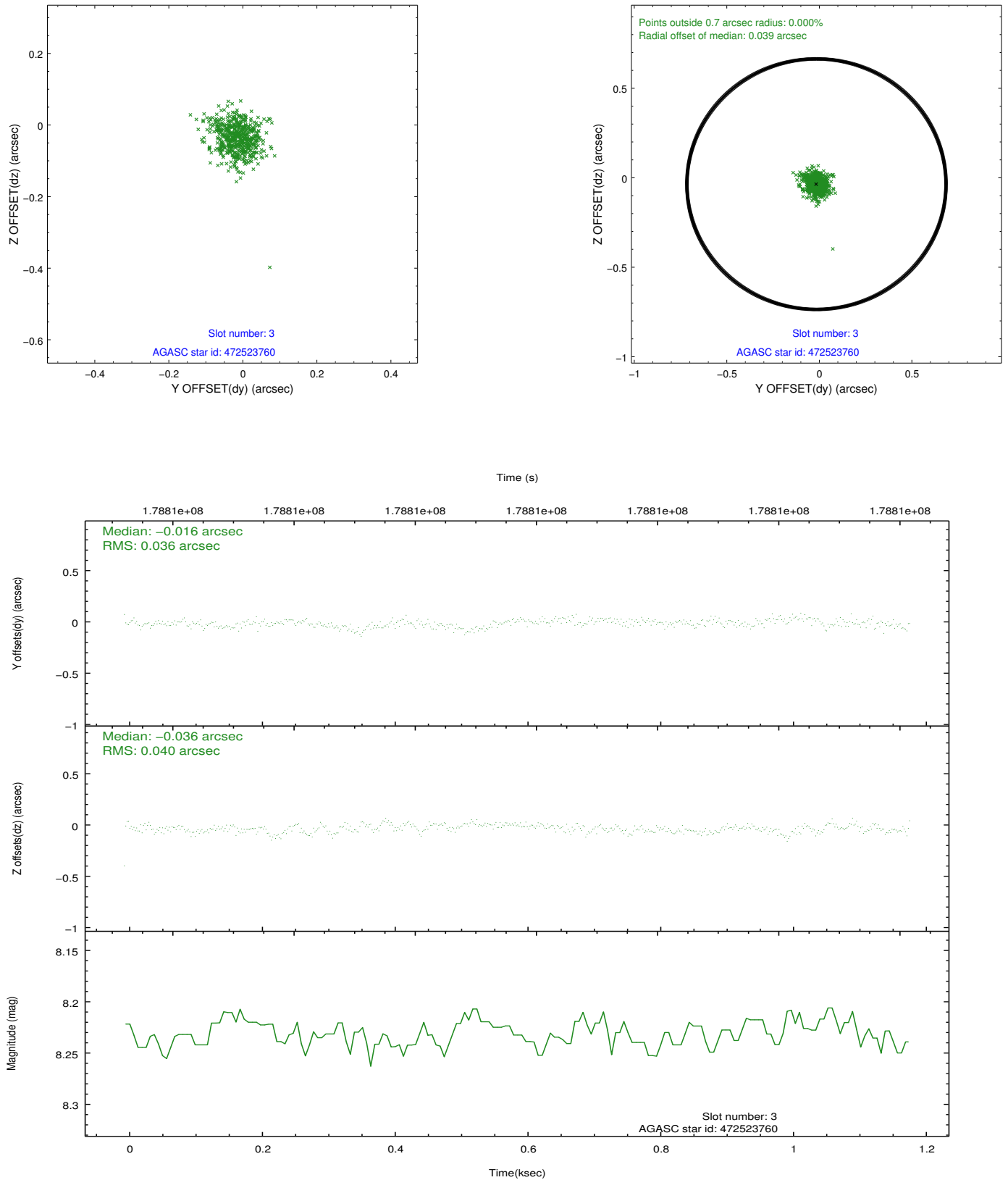


Slot Statistics

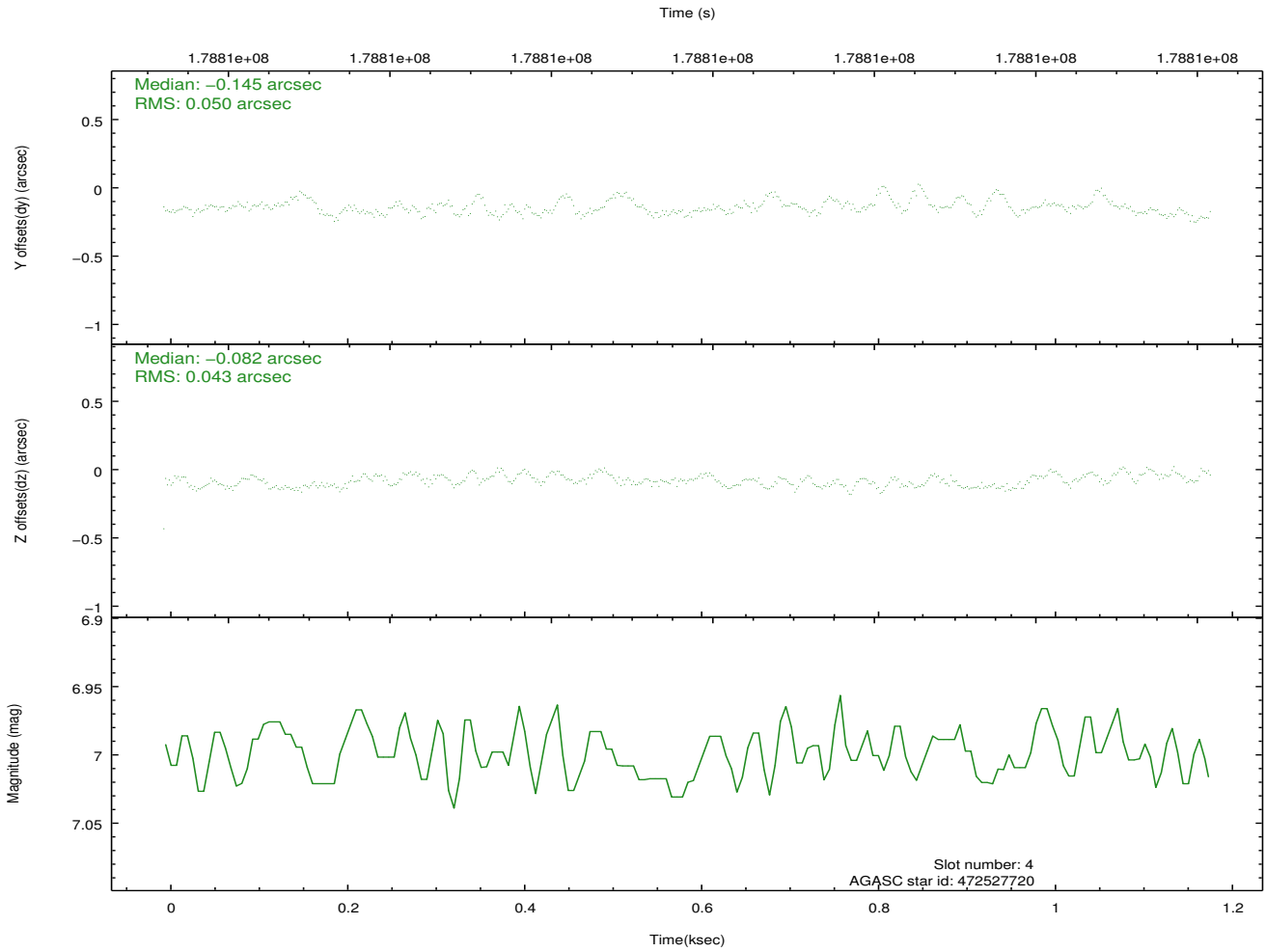
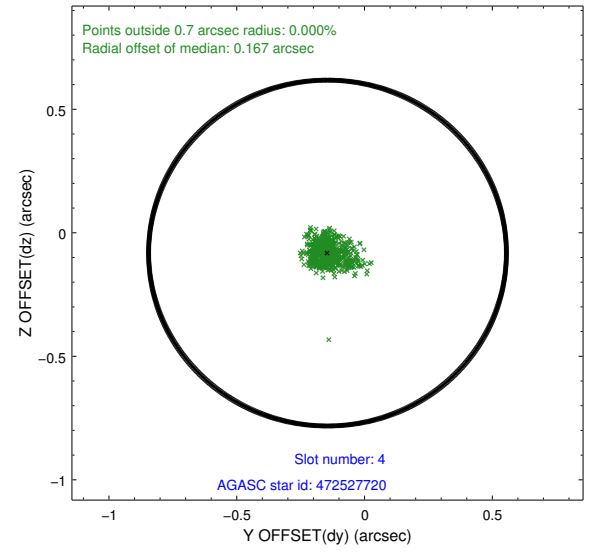
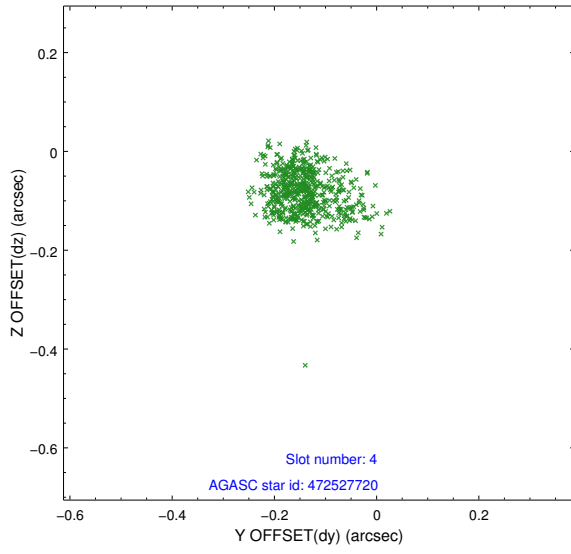
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.03 | 289 | 0.113 | -0.111 | 0.006 | 0.012 | 0.000000 | 0.000000 | -1161.04 | -456.11 |
| 1 | FID | HRC-S-2 | 7.03 | 289 | 0.158 | -0.105 | 0.004 | 0.008 | 0.000000 | 0.000000 | 1234.67 | -450.31 |
| 2 | FID | HRC-S-3 | 7.04 | 289 | 0.119 | -0.086 | 0.006 | 0.013 | 0.000000 | 0.000000 | -1159.48 | 571.89 |
| 3 | GUIDE | 472523760 | 8.23 | 578 | -0.016 | -0.036 | 0.054 | 0.094 | 331.645363 | 45.403260 | 1464.92 | 1025.61 |
| 4 | GUIDE | 472527720 | 7.00 | 578 | -0.145 | -0.082 | 0.068 | 0.113 | 331.460205 | 45.112509 | 2114.87 | 1974.19 |
| 5 | GUIDE | 472533912 | 9.15 | 578 | -0.023 | 0.032 | 0.103 | 0.175 | 331.791136 | 46.368695 | 499.01 | -2328.50 |
| 6 | GUIDE | 472655152 | 9.45 | 577 | 0.104 | 0.052 | 0.086 | 0.147 | 332.504239 | 45.862991 | -947.49 | -239.02 |
| 7 | GUIDE | 472659832 | 9.46 | 576 | 0.077 | 0.030 | 0.098 | 0.164 | 332.780399 | 46.098139 | -1770.45 | -957.23 |

2.4 Star Slots

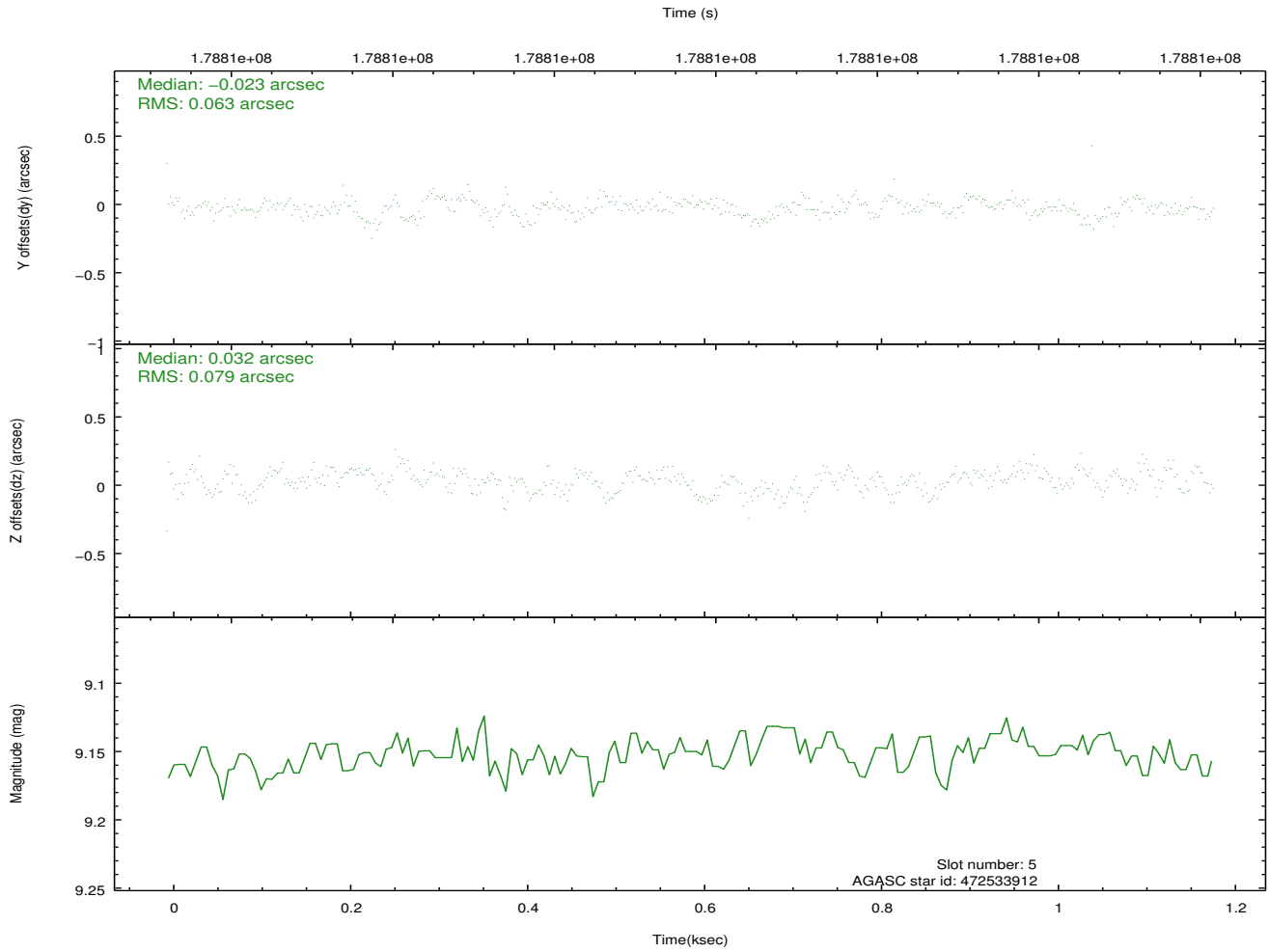
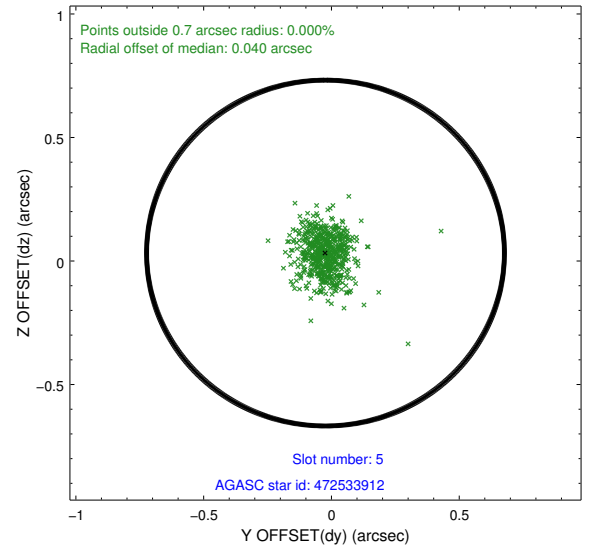
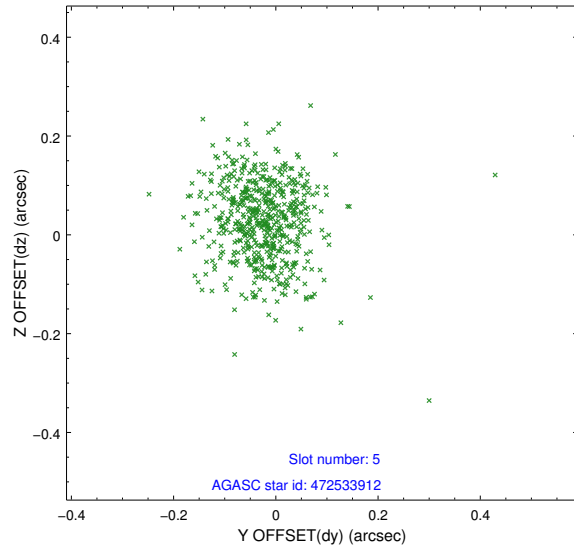
2.4.1 Slot 3



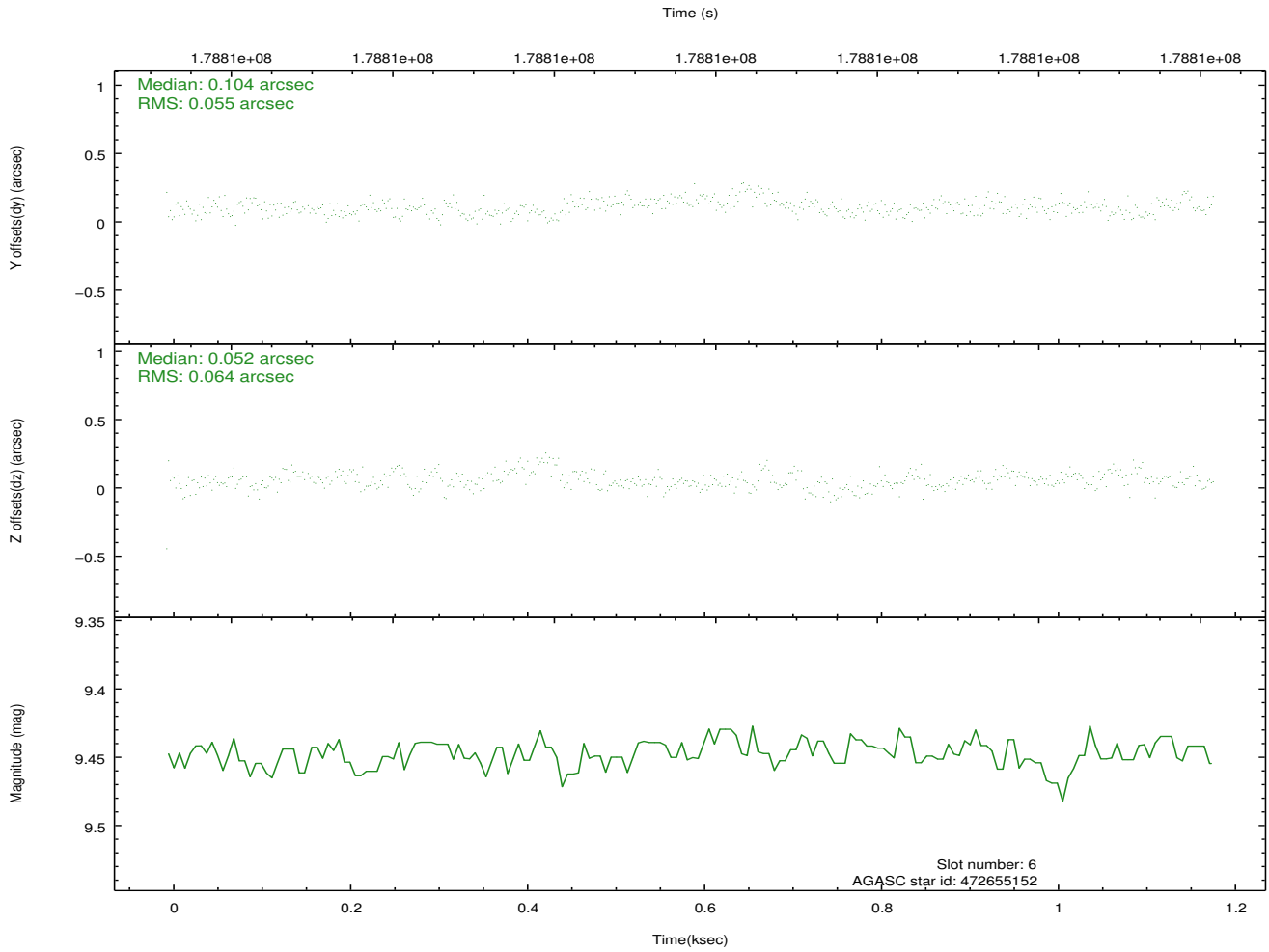
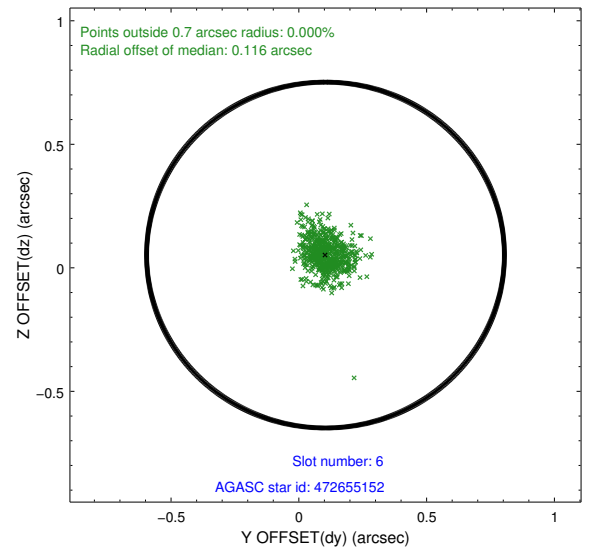
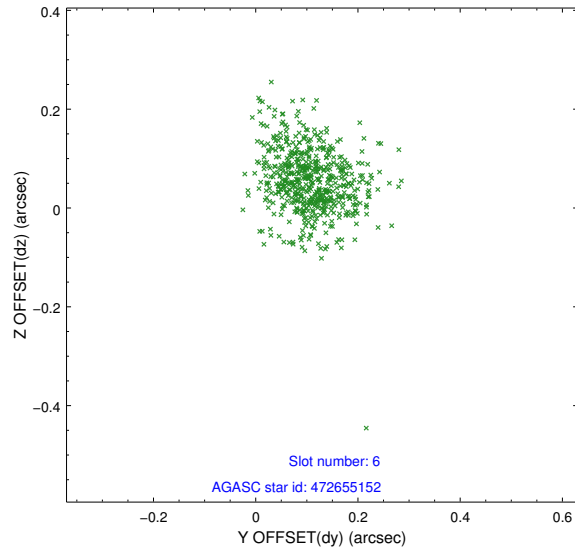
2.4.2 Slot 4



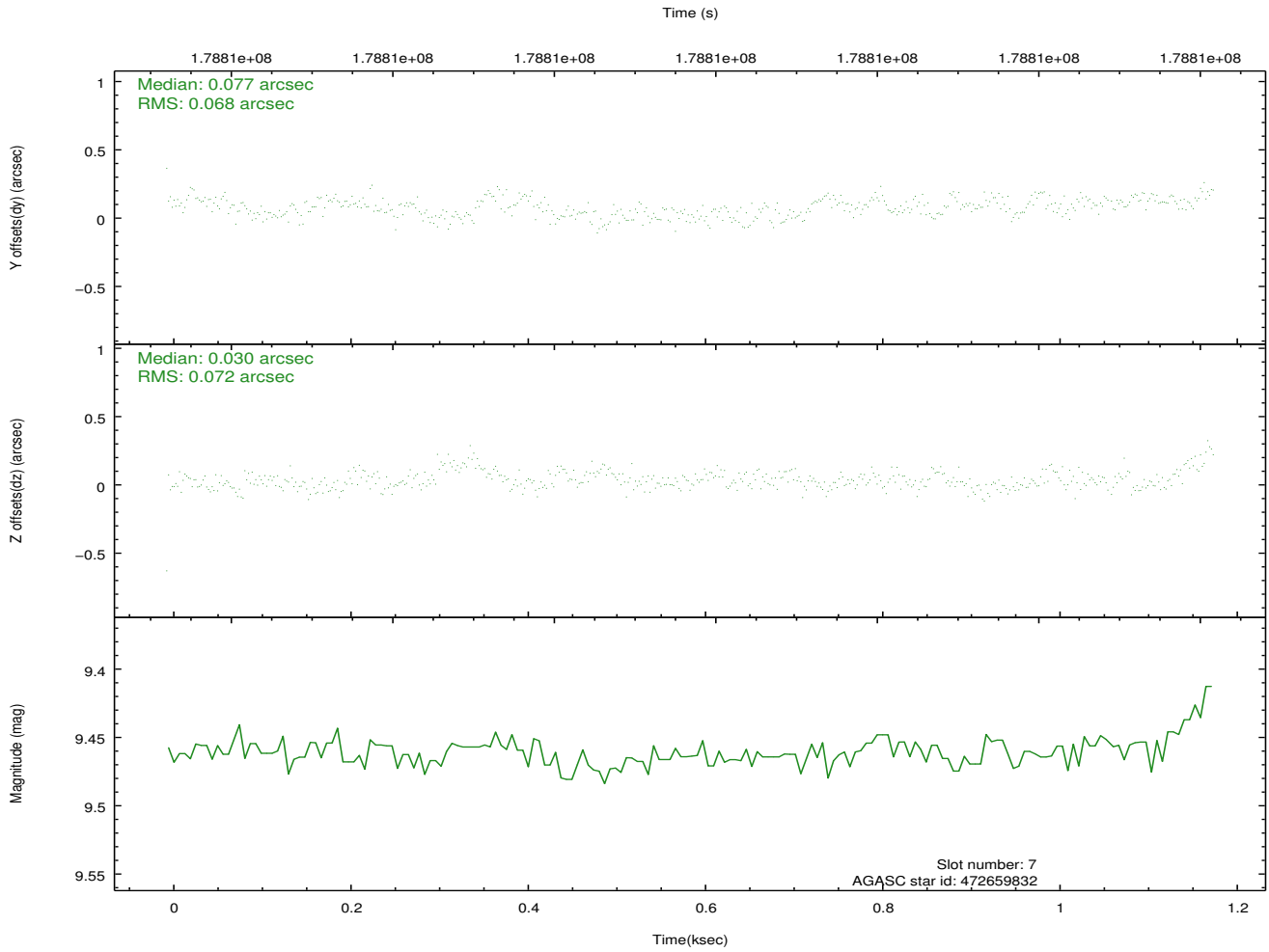
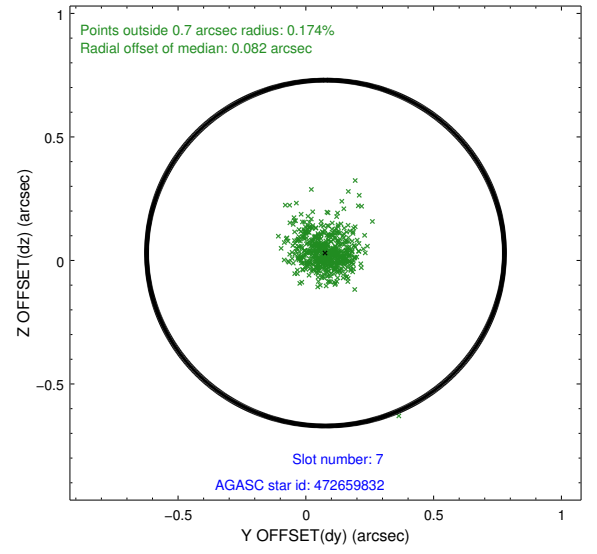
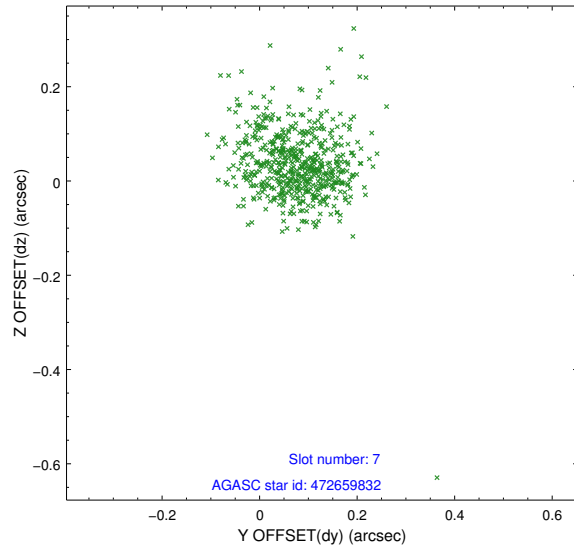
2.4.3 Slot 5



2.4.4 Slot 6

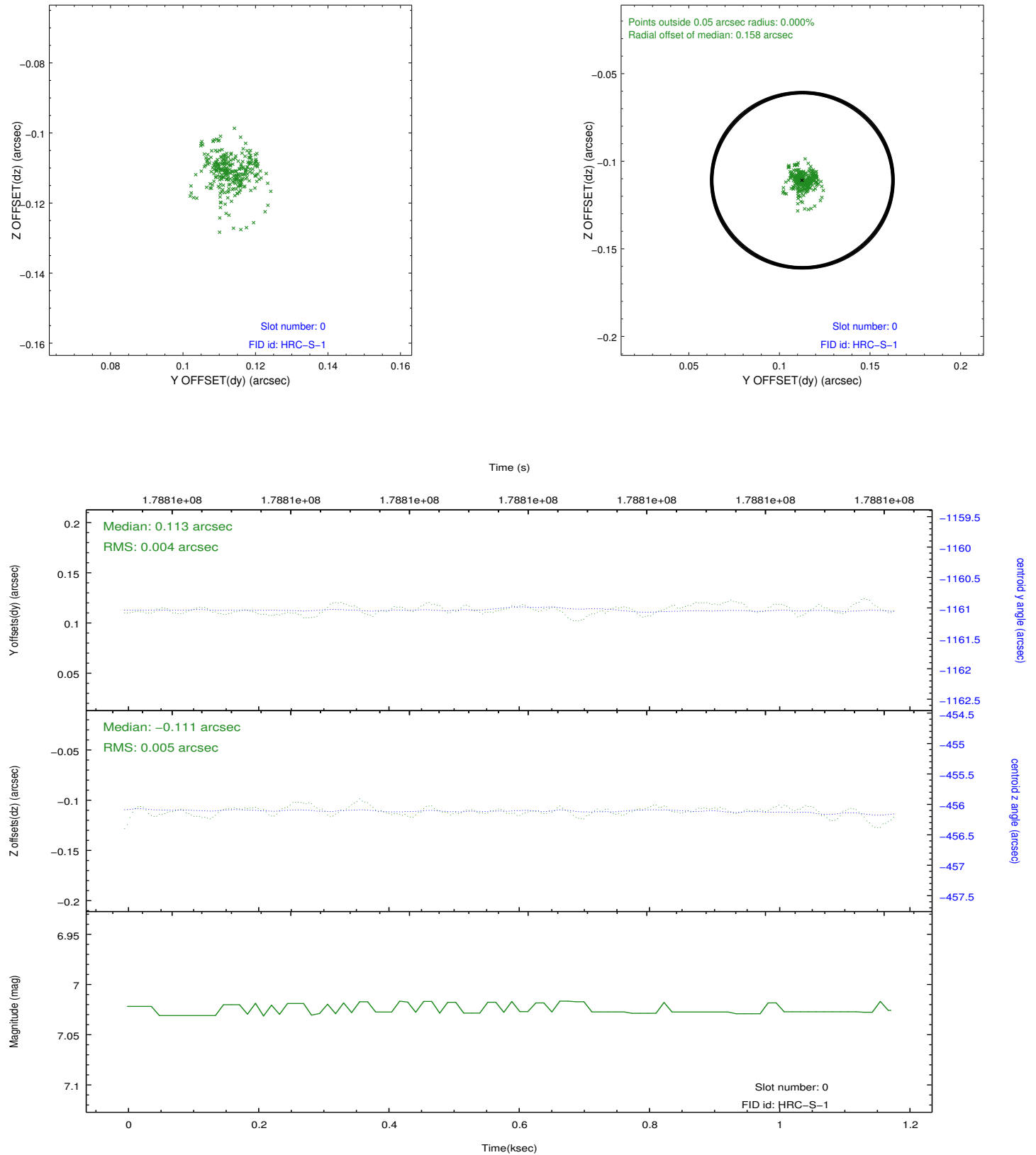


2.4.5 Slot 7

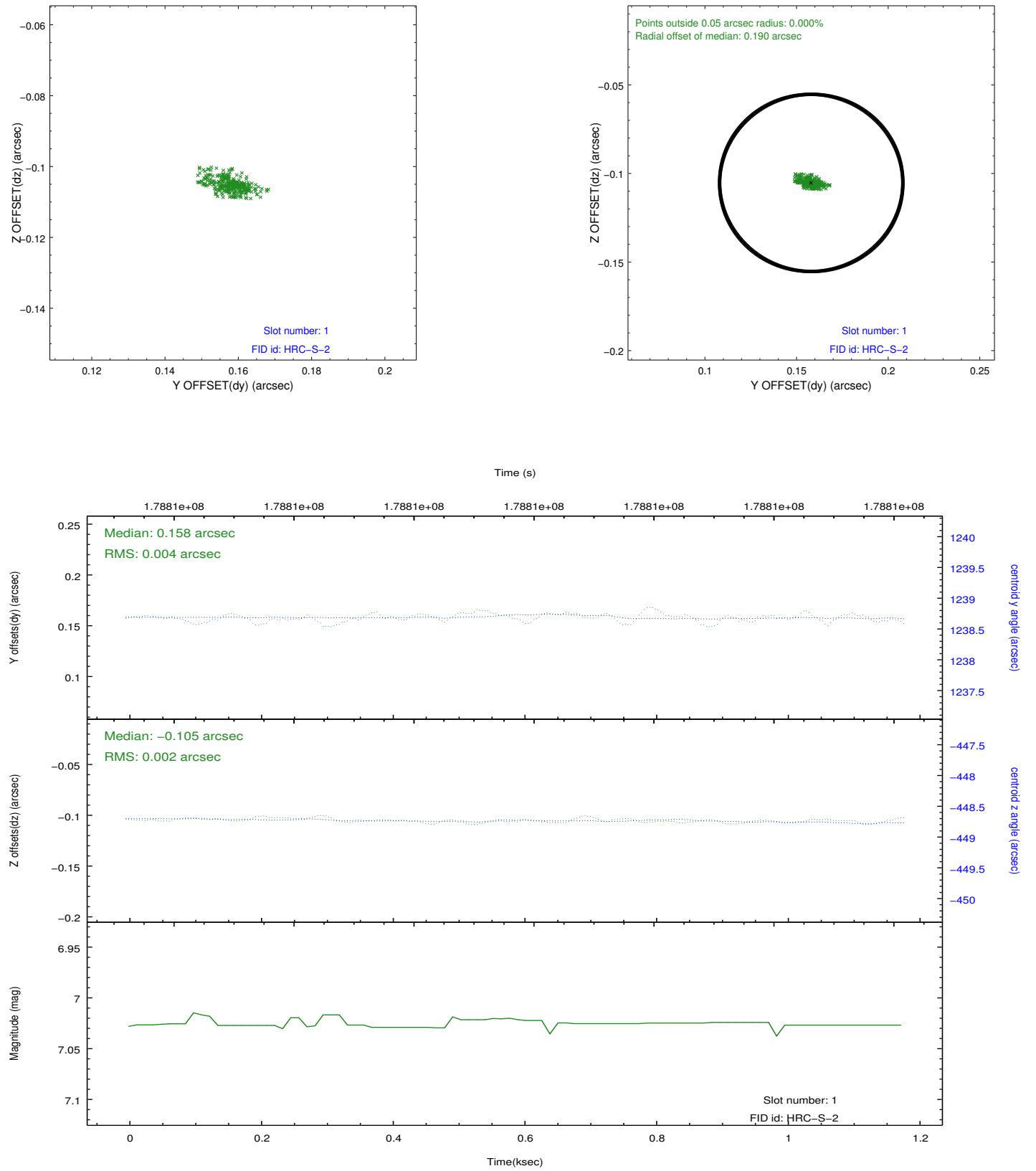


2.5 FID Slots

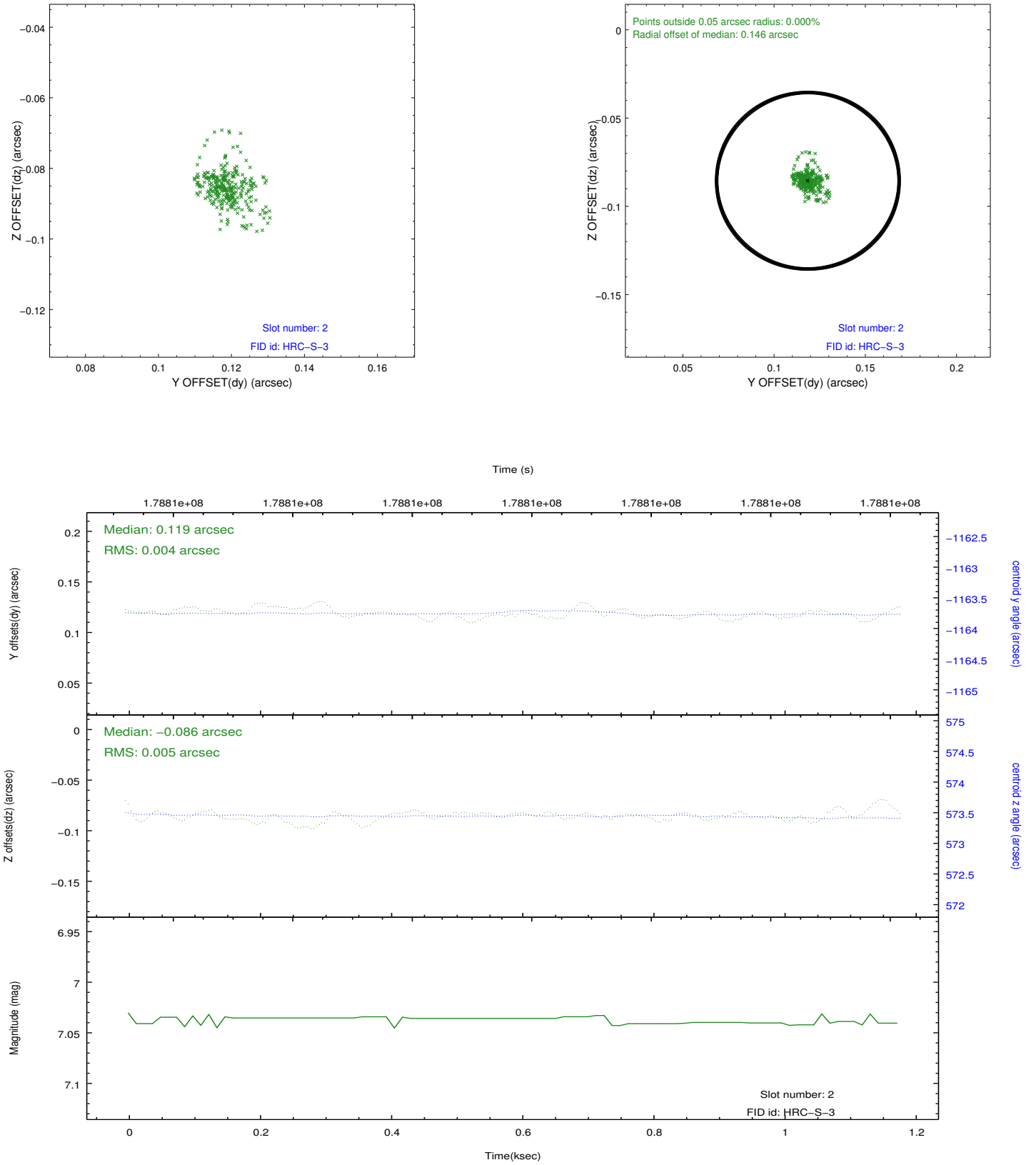
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.11.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.142 |

A.2 Comments