

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9098 - L2 Version 2  
Chandra X-Ray Center

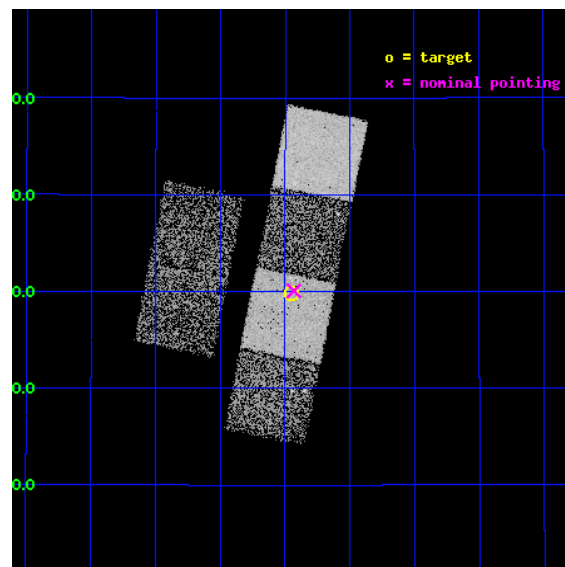
L2 Processing Date : May 16 2012

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# 1 Front

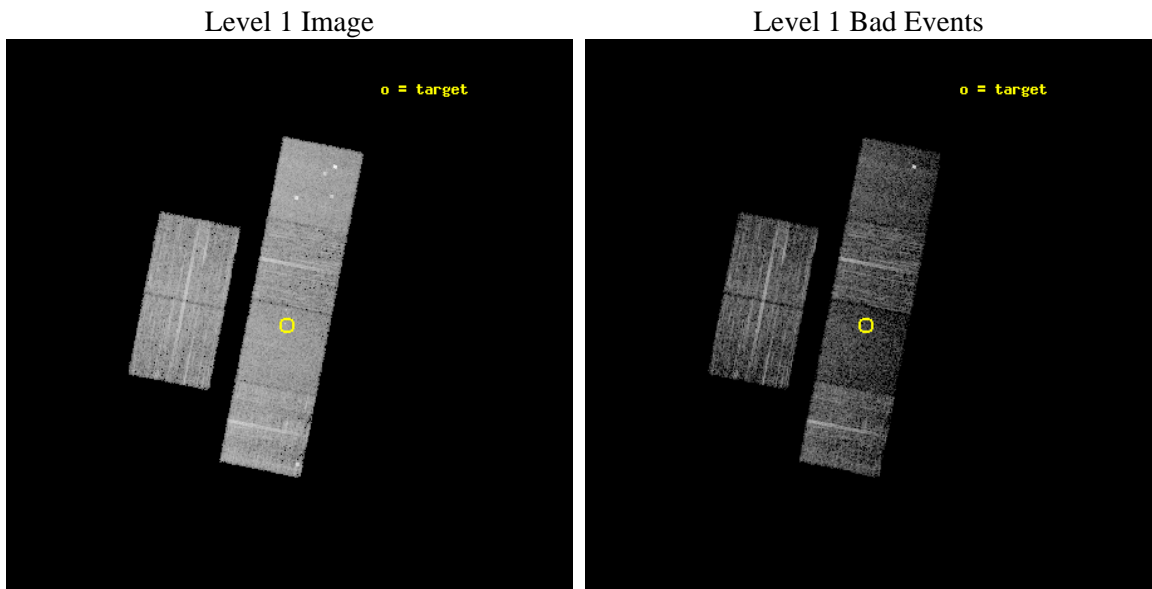
seq_num	500961	Sequence number
obs_id	9098	Observation id
title	Chandra Observations of Young, Energetic Supernovae	Proposal title
observer	Prof. David Pooley	Principal investigator
object	SN 2005db	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.361667	Observer's specified target RA [deg]
dec_targ	25.497667	Observer's specified target Dec [deg]
ra_nom	10.358081767109	Nominal RA [deg]
dec_nom	25.50127311866	Nominal Dec [deg]
roll_nom	101.2001611633	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5043.1999812722	Sum of GTIs [s]
livetime	4979.3399464589	Livetime [s]
ontime2	5036.7181104422	Sum of GTIs [s]
ontime3	5043.1999812722	Sum of GTIs [s]
ontime5	5043.1999812722	Sum of GTIs [s]
ontime6	5043.1999812722	Sum of GTIs [s]
ontime7	5043.1999812722	Sum of GTIs [s]
ontime8	5043.1999812722	Sum of GTIs [s]
l2events	54263	Number of level 2 events



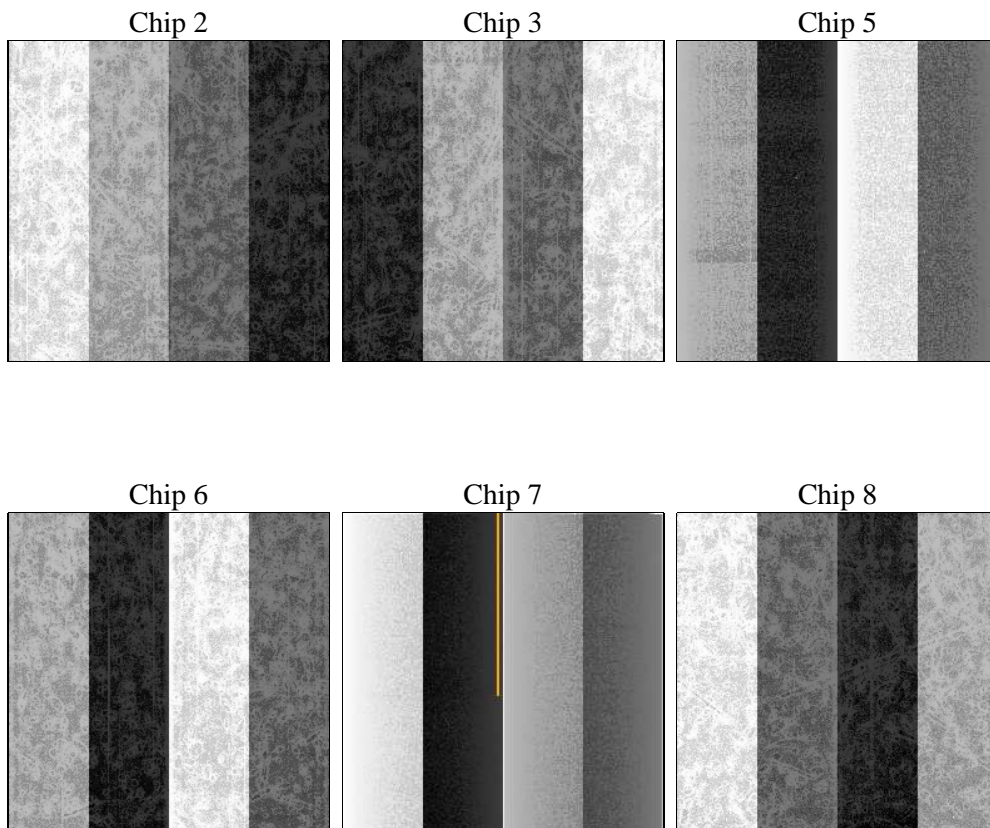
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5043.1999812722	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5036.7181104422	Sum of GTIs [s]
date	2012-05-16T03:04:43	Date and time of file creation	ontime3	5043.1999812722	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5043.1999812722	Sum of GTIs [s]
			ontime6	5043.1999812722	Sum of GTIs [s]
			ontime7	5043.1999812722	Sum of GTIs [s]
			ontime8	5043.1999812722	Sum of GTIs [s]
			l1events	246320	Number of level 1 events

### 2.1.4 Events

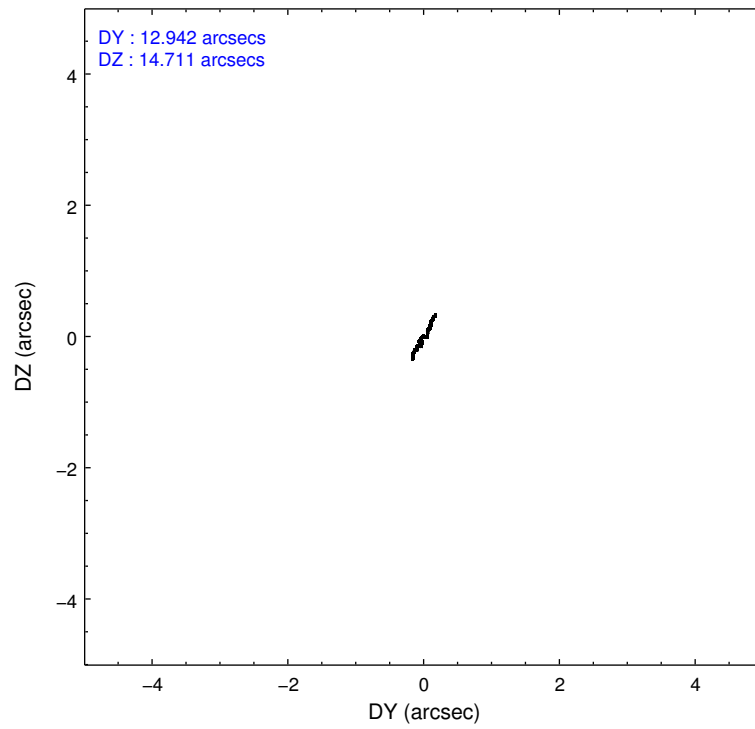
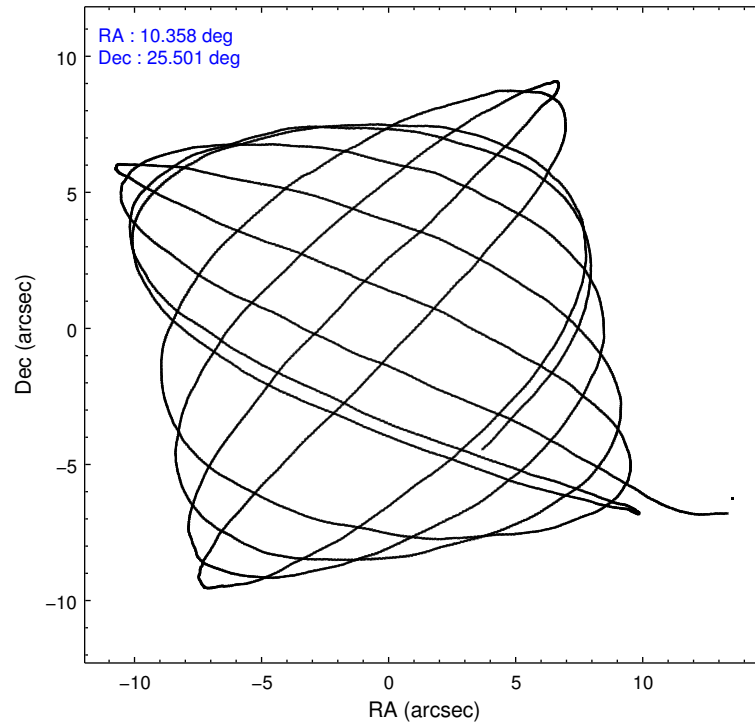
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40508	36505	49185	36311	36448	47363	grade 0 events	1386	1342	3357	1456	1975	3773
rejected events	36833	33091	22945	32491	18085	35093		3%	3%	6%	4%	5%	7%
rejected %	90%	90%	46%	89%	49%	74%	grade 1 events	16	22	119	13	50	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	893	717	8160	819	4045	2793
								2%	1%	16%	2%	11%	5%
							grade 3 events	358	380	1067	395	1751	1229
								0%	1%	2%	1%	4%	2%
							grade 4 events	424	379	973	367	1735	1206
								1%	1%	1%	1%	4%	2%
							grade 5 events	1076	1243	3902	1275	3868	1926
								2%	3%	7%	3%	10%	4%
							grade 6 events	618	597	12716	788	8881	3289
								1%	1%	25%	2%	24%	6%
							grade 7 events	35737	31825	18891	31198	14143	33103
								88%	87%	38%	85%	38%	69%

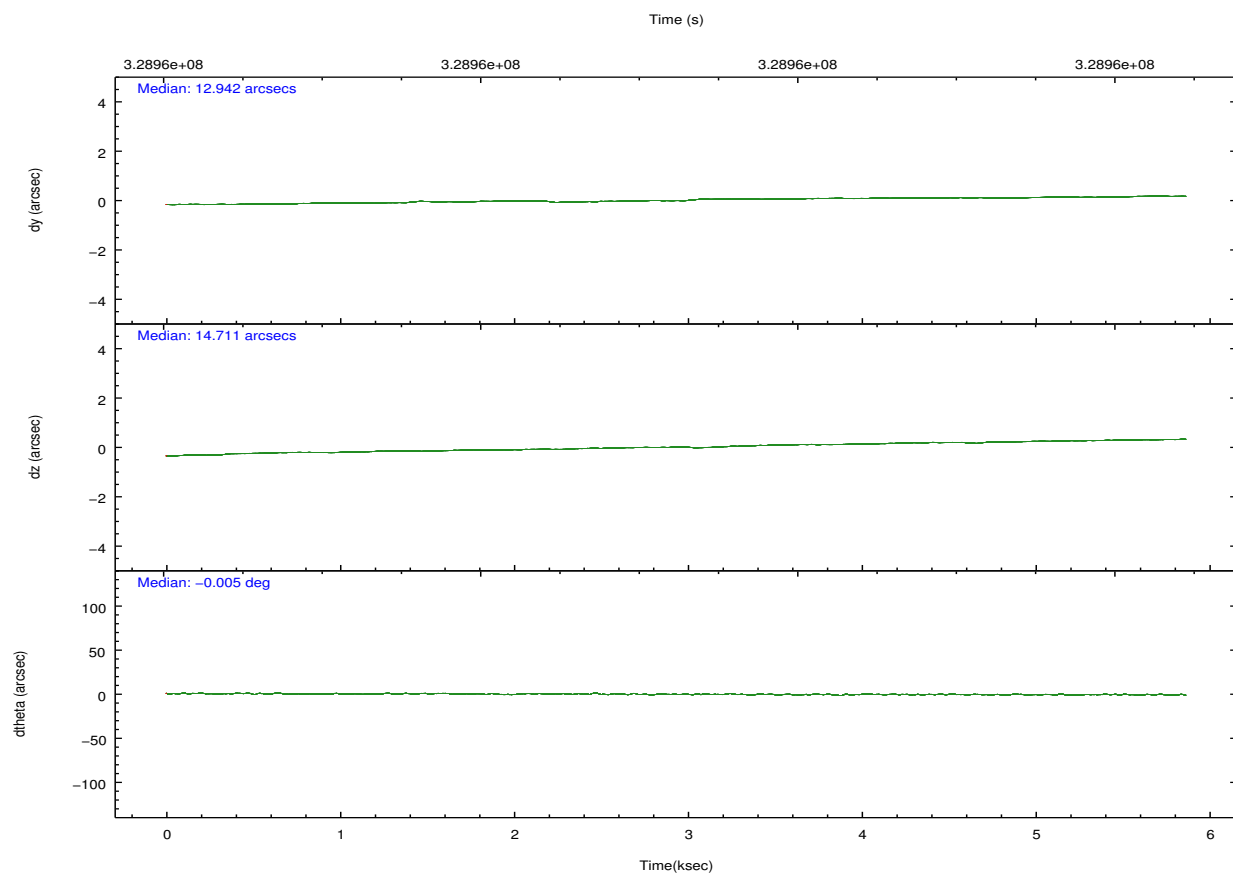
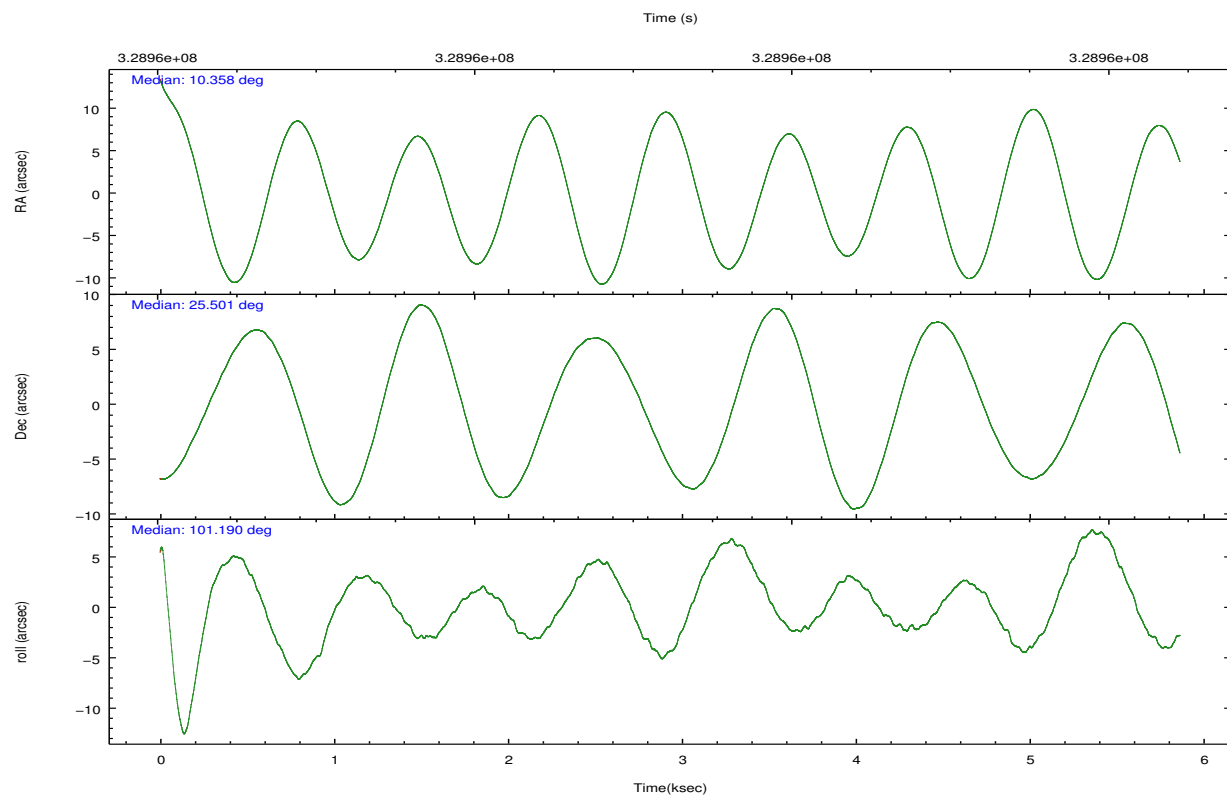


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	10.378271	10.35808176710913	CCD I2 on	O1	Y
[deg] Pointing Dec	25.480897	25.50127311866027	CCD I3 on	O2	Y
[deg] Pointing Roll	101.034816	101.200161163299	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	328959164.184000	328957821.29316	CCD S5 on	N	N
Observation start date	2008-06-04T09:31:39	2008-06-04T09:10:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	328964164.184000	328965180.28102	On-chip summing requested	N	N
Observation end date	2008-06-04T10:54:59	2008-06-04T11:13:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



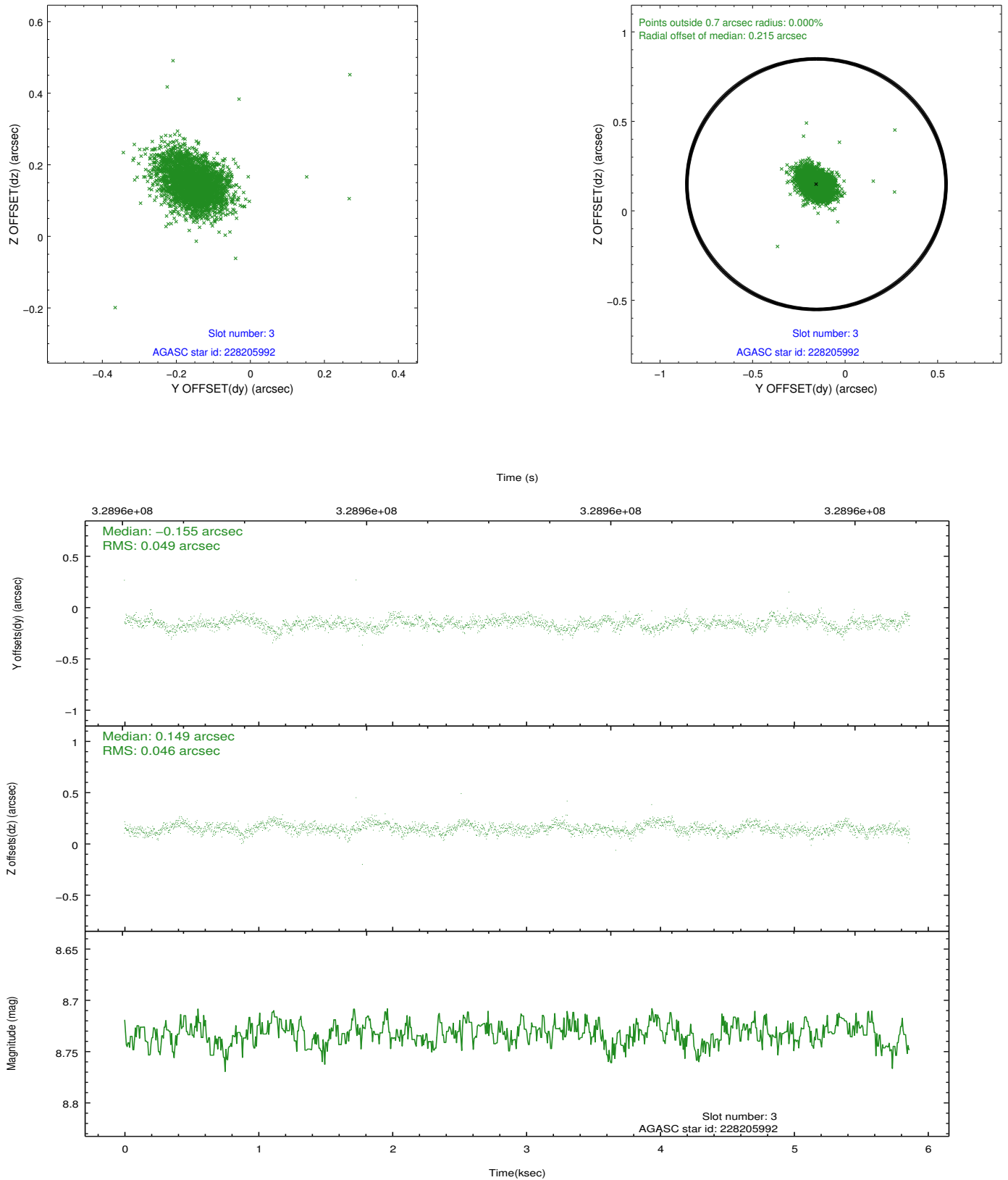


### Slot Statistics

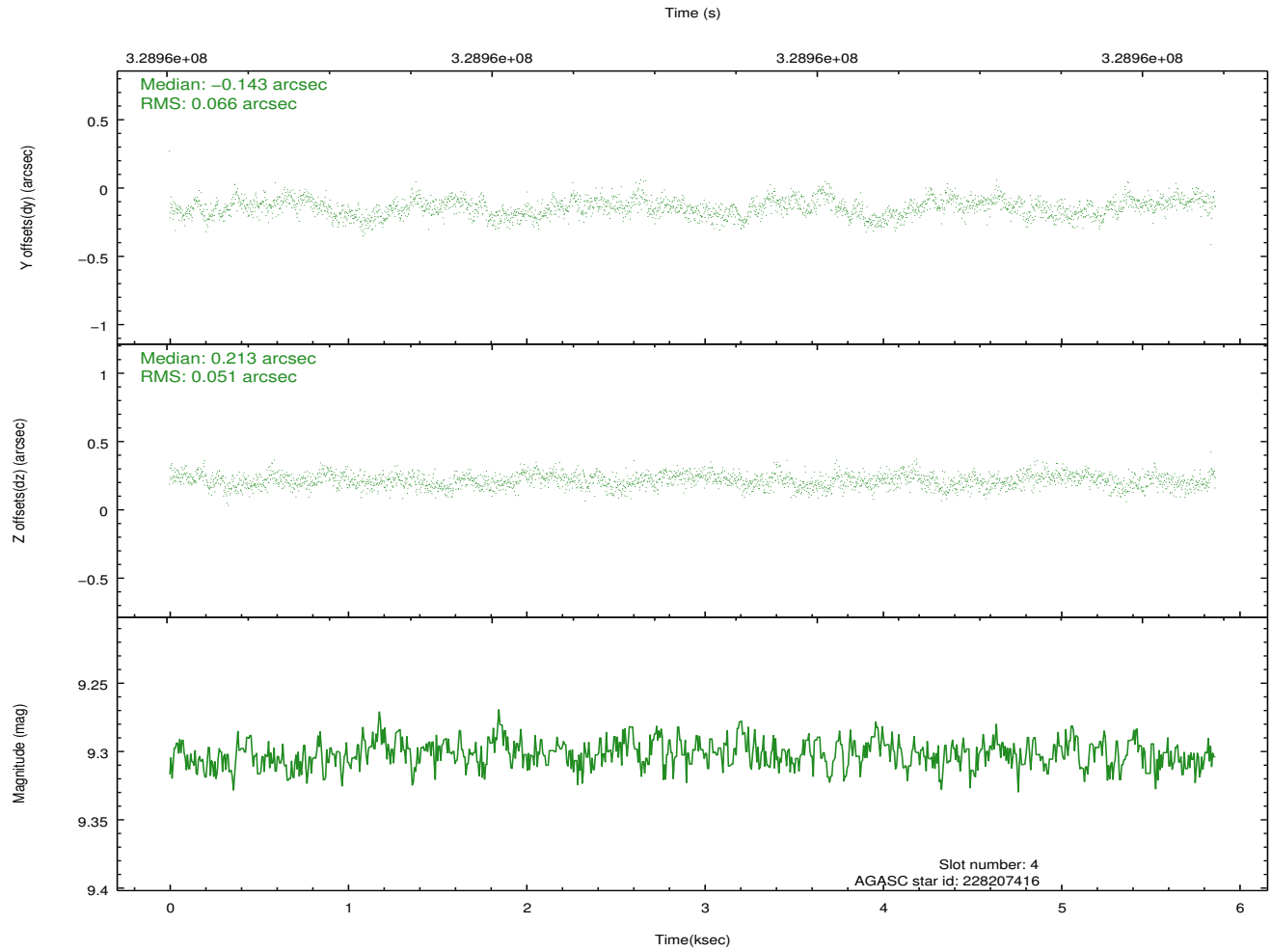
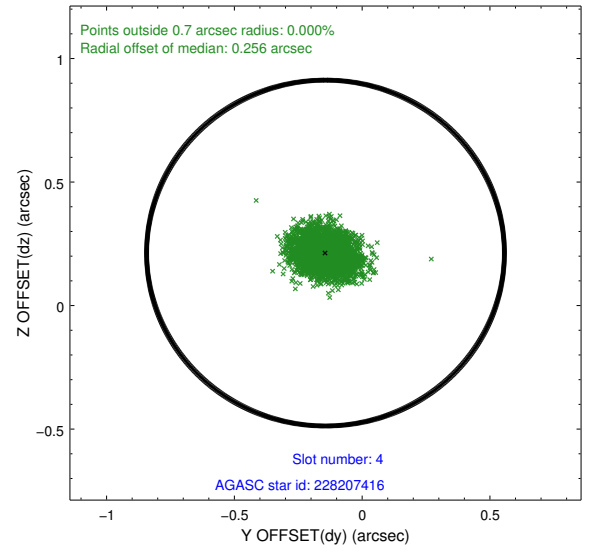
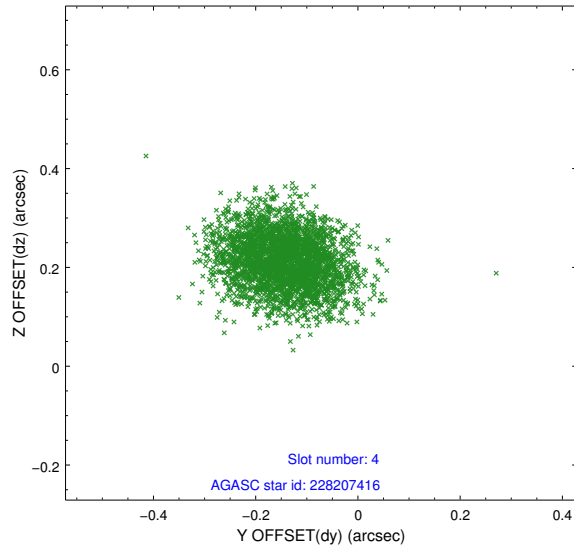
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1431	-0.041	-0.009	0.008	0.012	0.000000	0.000000	-765.88	-1736.07
1	FID	ACIS-S-4	6.97	1431	0.124	0.022	0.012	0.019	0.000000	0.000000	2147.07	171.44
2	FID	ACIS-S-5	7.00	1431	-0.114	-0.004	0.009	0.015	0.000000	0.000000	-1817.53	166.18
3	GUIDE	228205992	8.73	2858	-0.155	0.149	0.069	0.114	10.356170	25.898017	1487.60	-216.24
4	GUIDE	228207416	9.30	2859	-0.143	0.213	0.089	0.145	10.577243	25.910309	1394.97	-928.35
5	GUIDE	228208672	9.29	2860	0.021	-0.087	0.093	0.151	9.842594	25.730624	1218.47	1531.81
6	GUIDE	228210320	9.96	2859	0.194	-0.056	0.118	0.197	10.260020	25.260811	-703.13	530.04
7	GUIDE	228210592	8.76	2859	0.084	-0.220	0.081	0.129	9.742780	25.338111	-104.34	2127.32

## 2.4 Star Slots

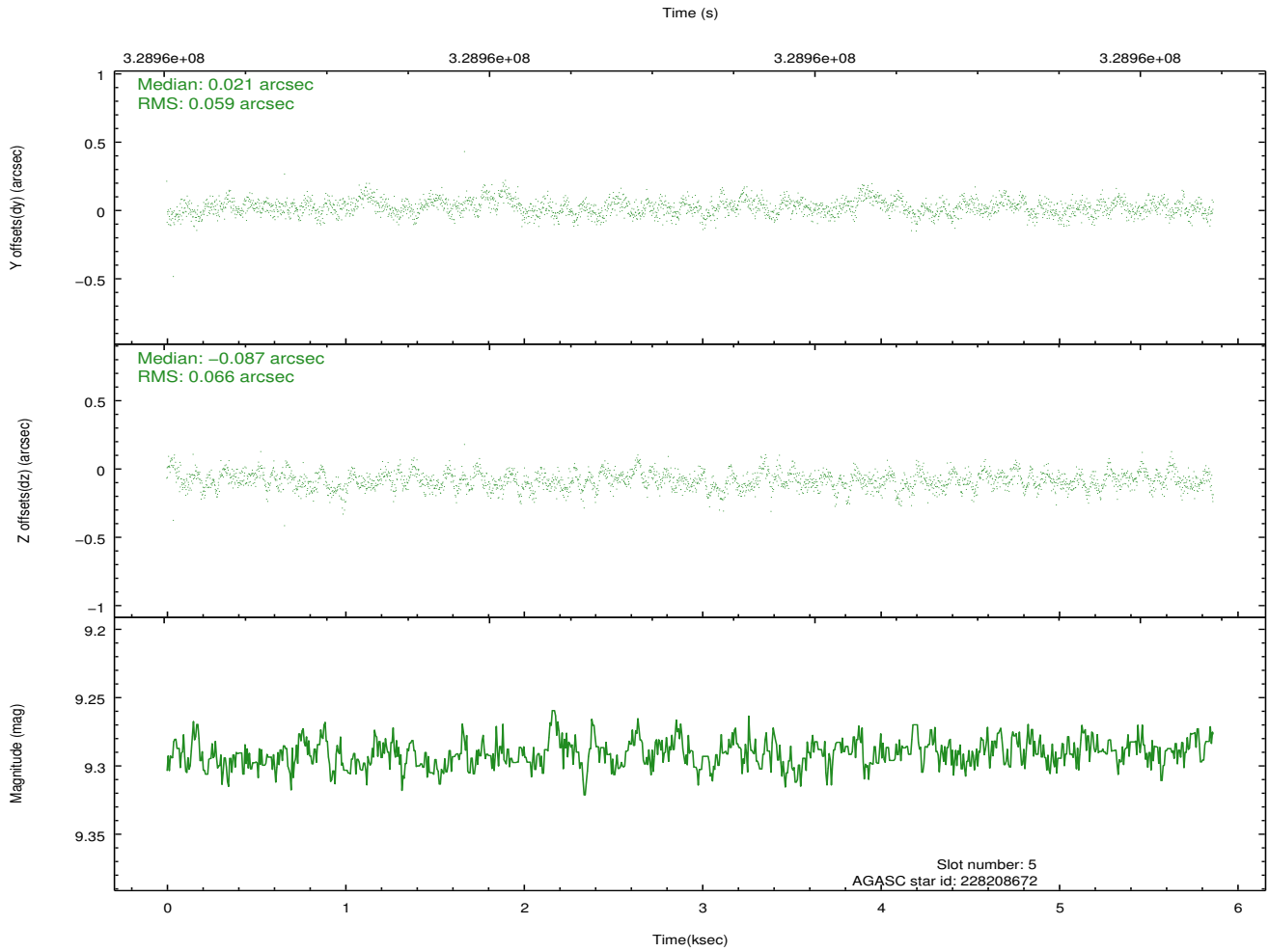
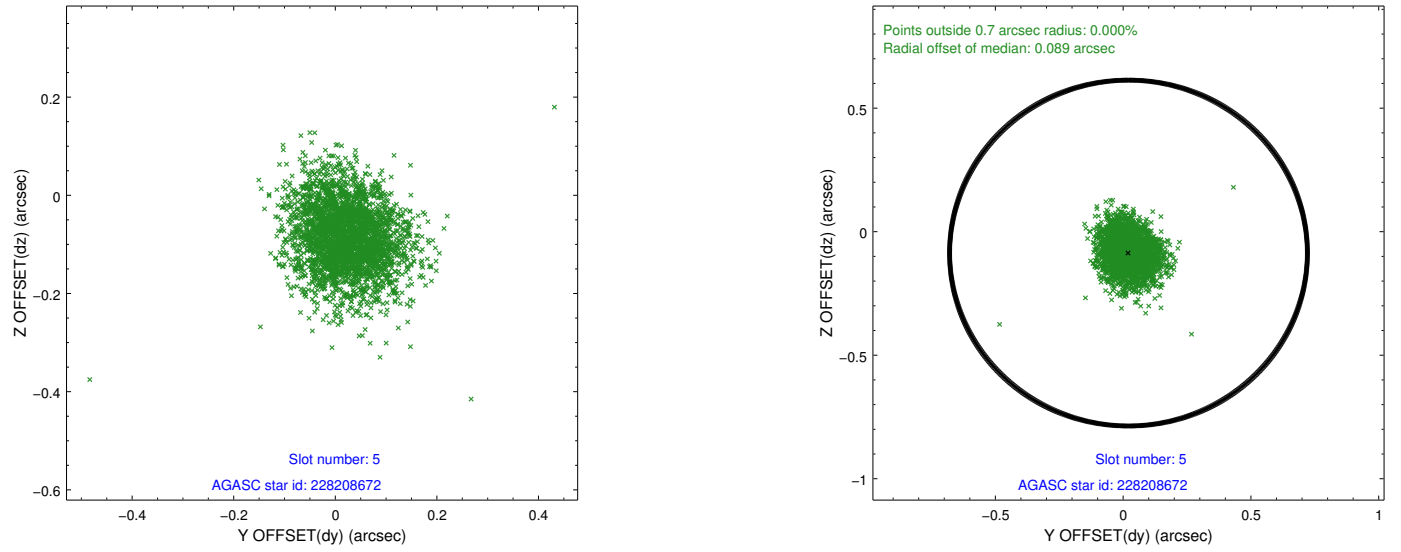
### 2.4.1 Slot 3



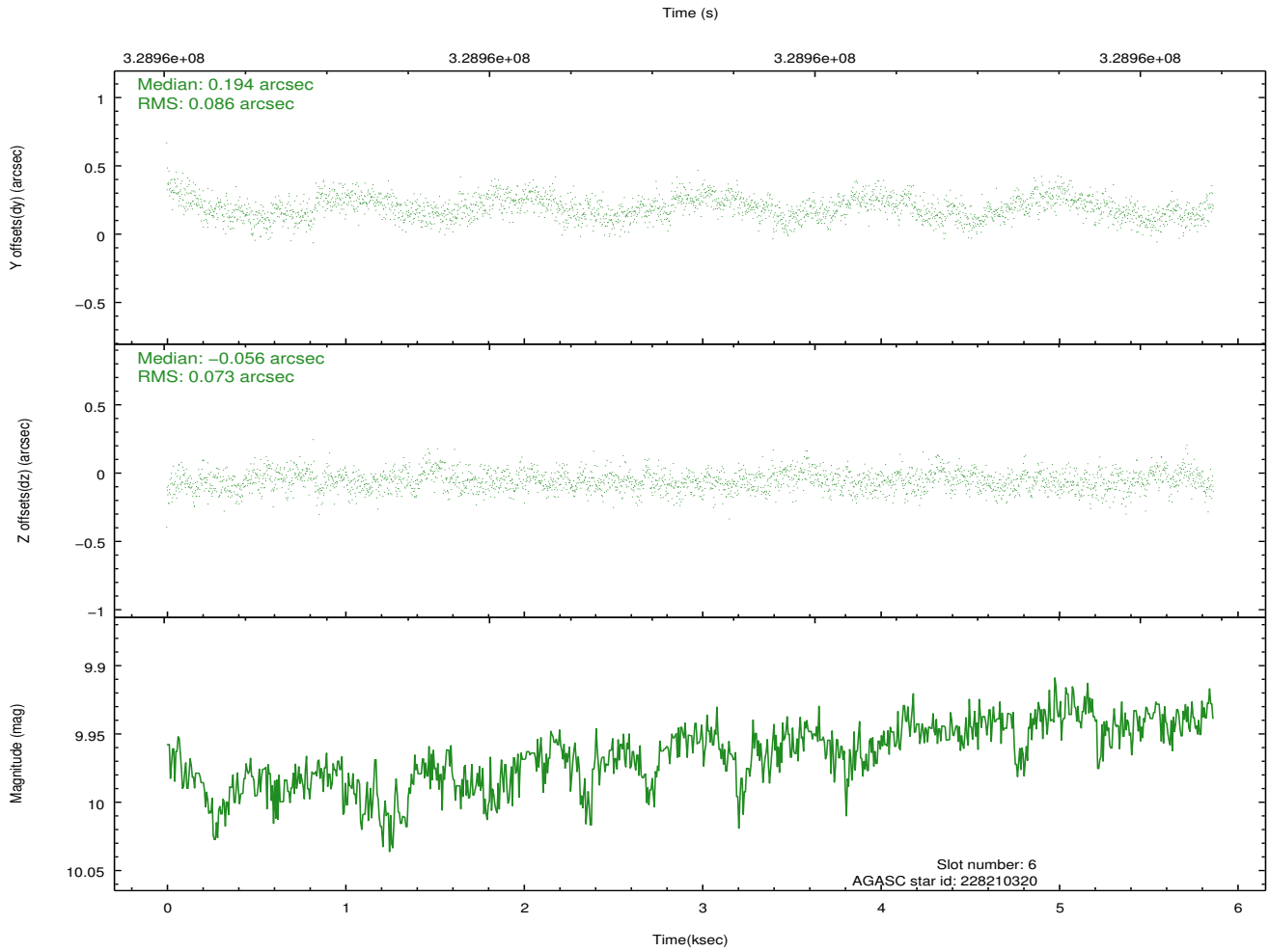
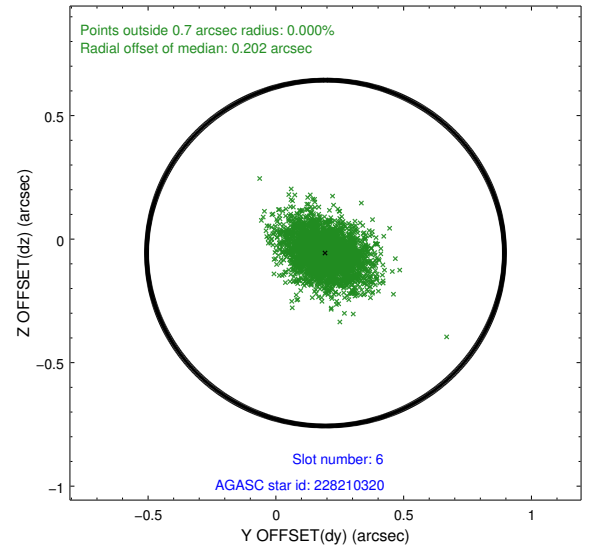
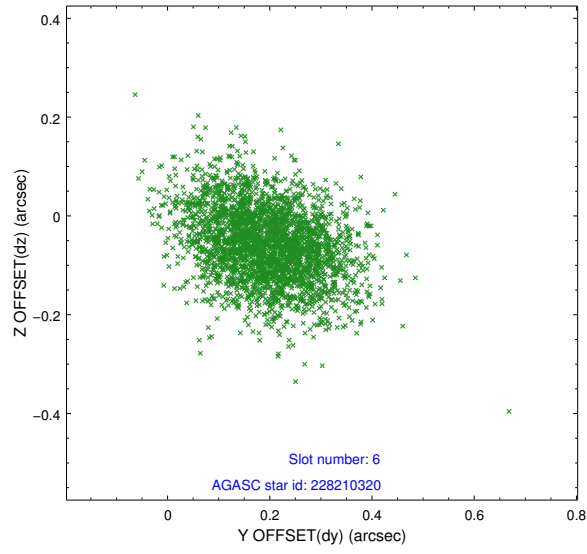
## 2.4.2 Slot 4



### 2.4.3 Slot 5

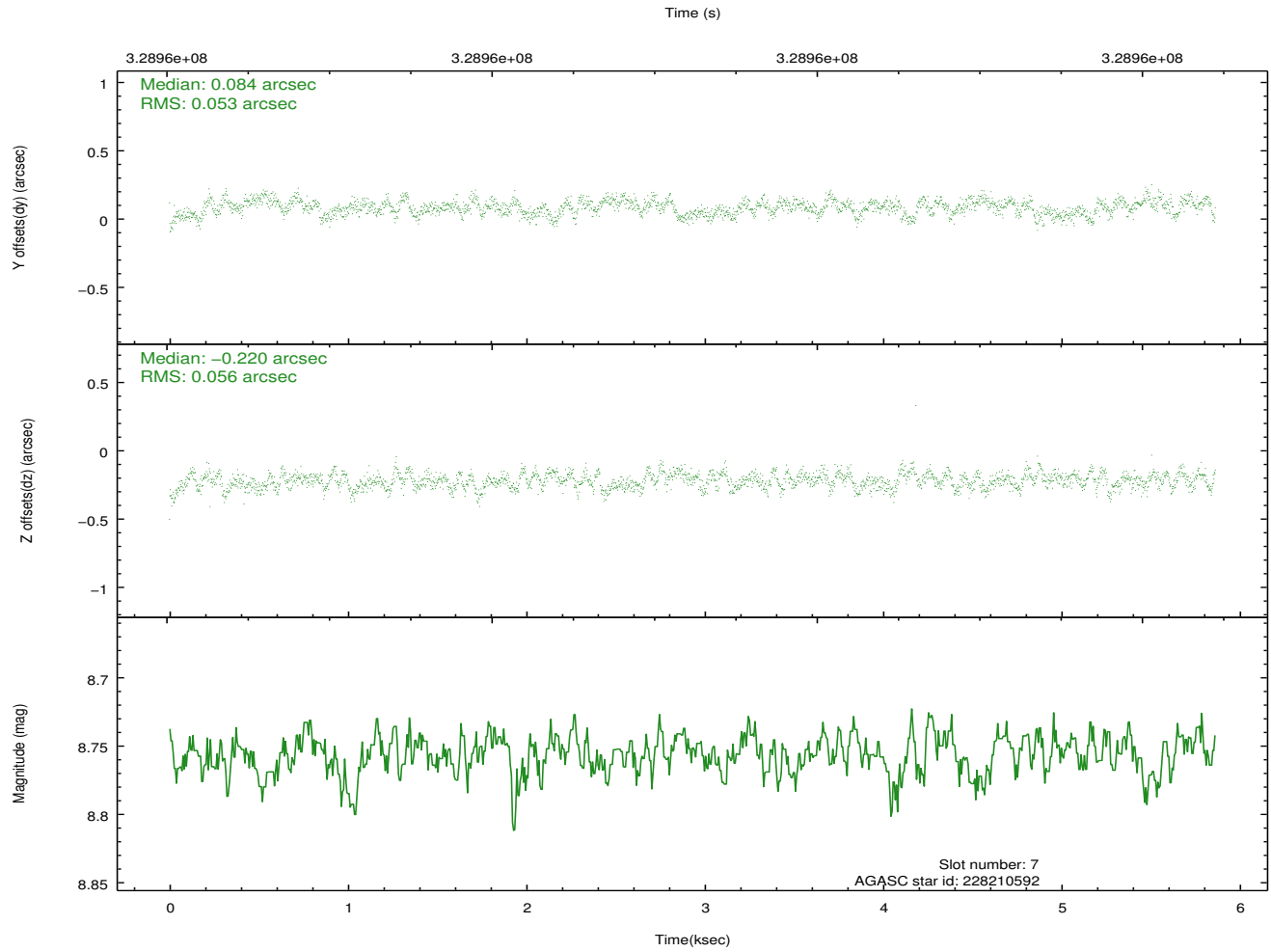
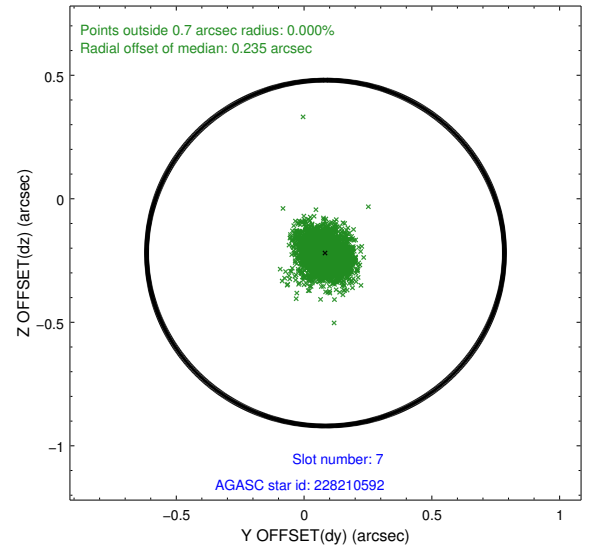
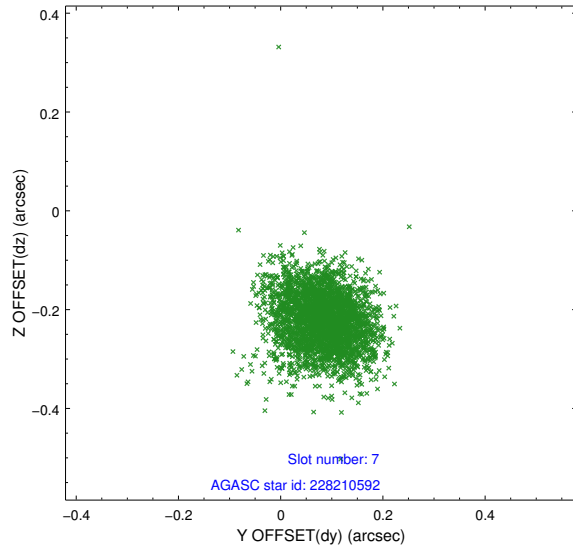


## 2.4.4 Slot 6



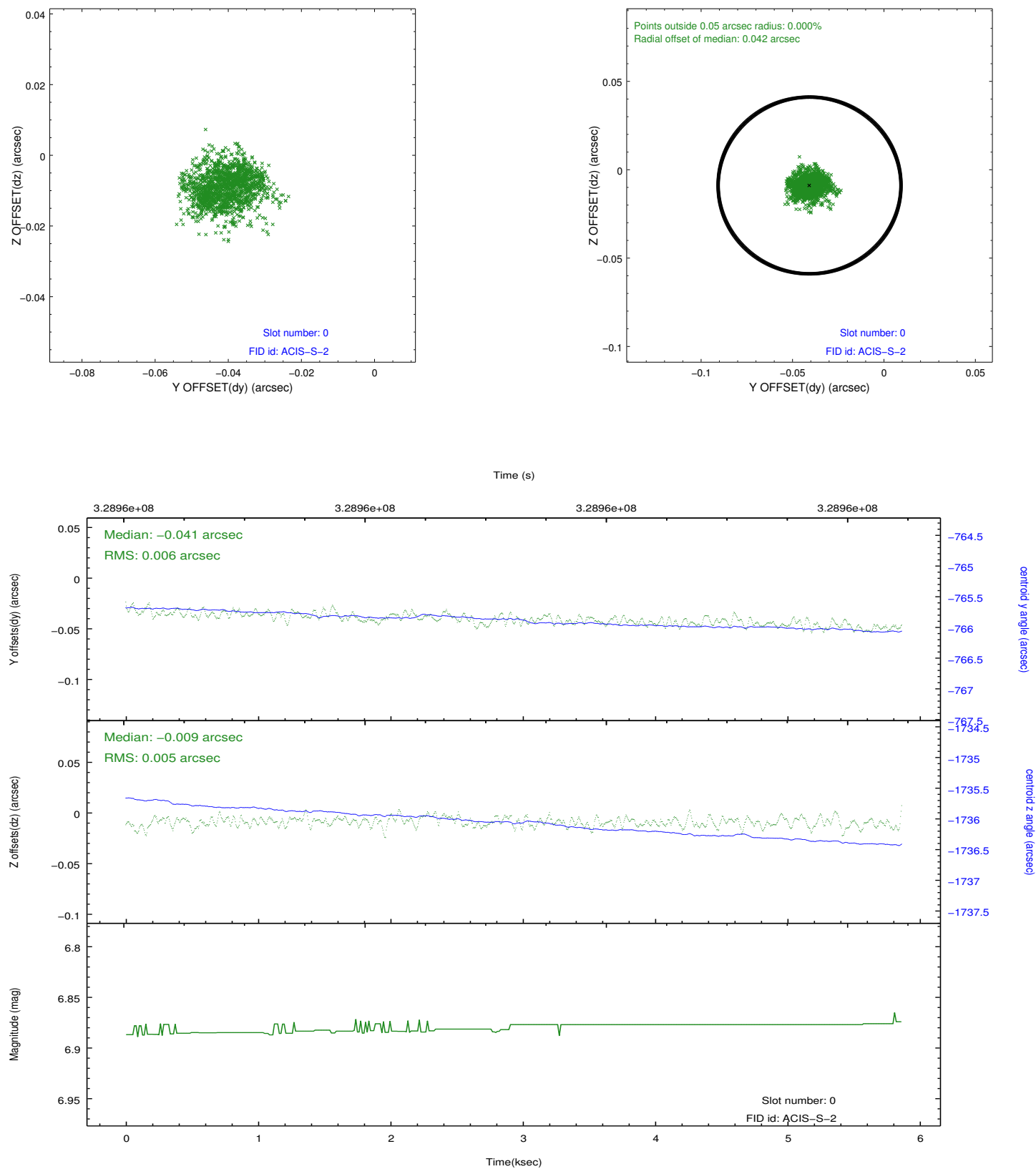


## 2.4.5 Slot 7

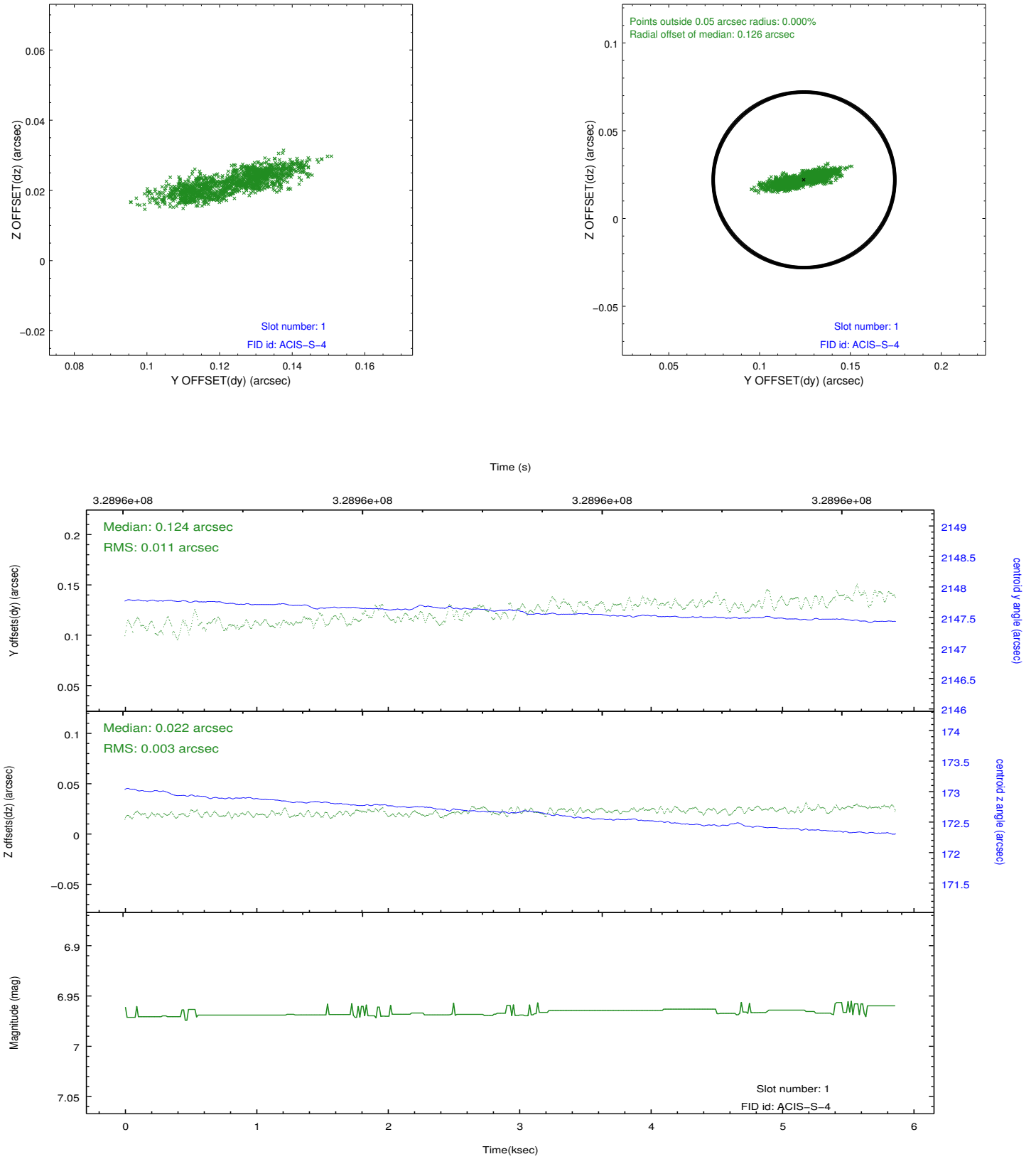


## 2.5 FID Slots

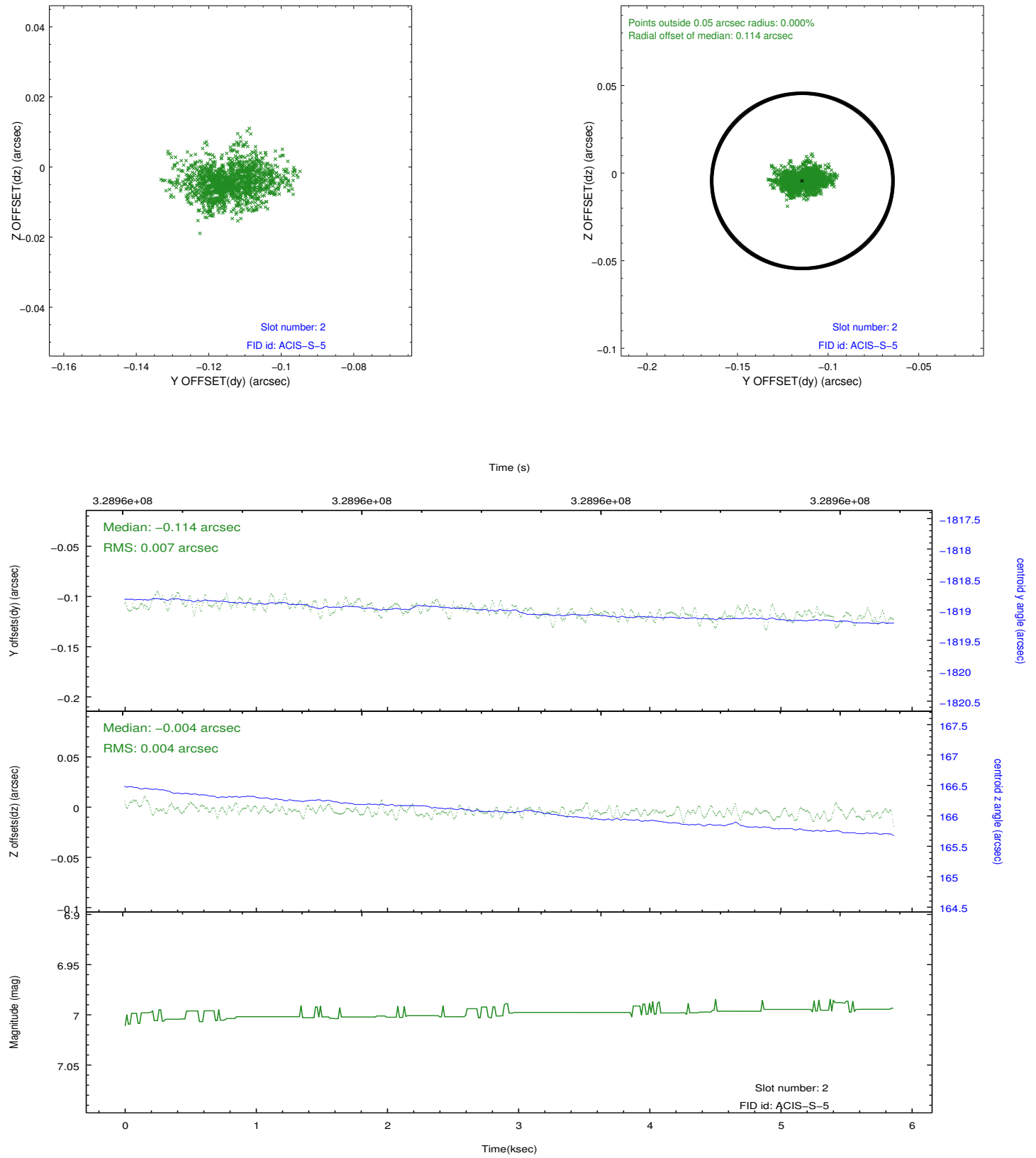
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.04319998

### A.2 Comments