

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3365 - L2 Version 3
Chandra X-Ray Center

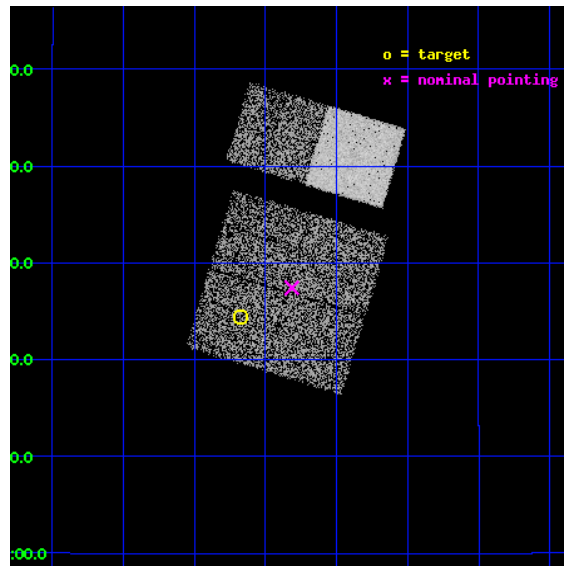
L2 Processing Date : Sep 29 2012

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1 Front

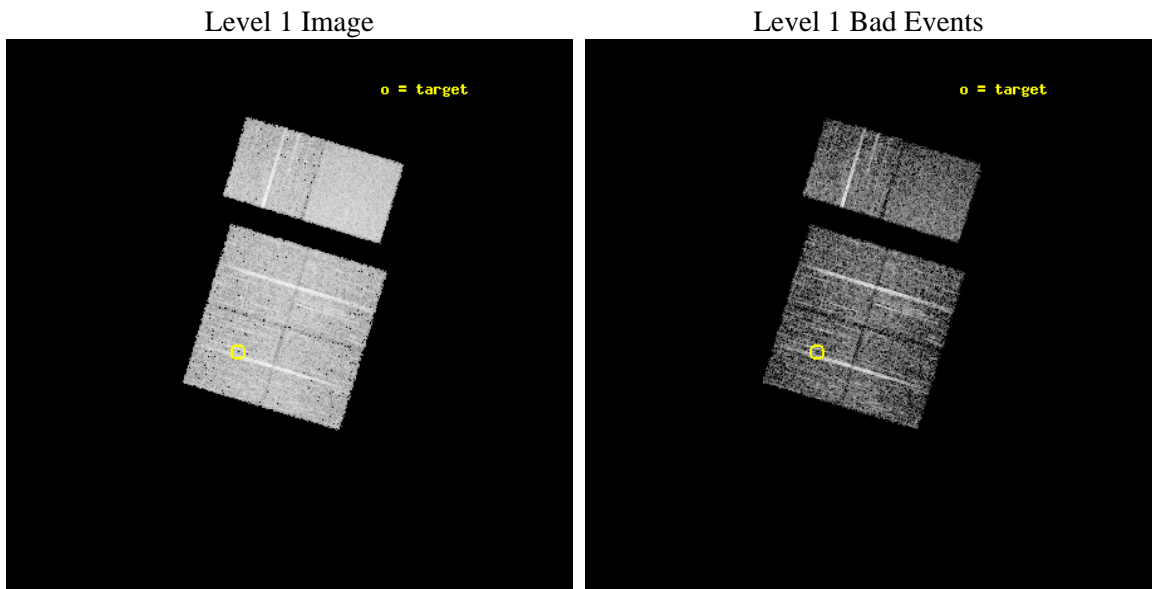
seq_num	290224	Sequence number
obs_id	3365	Observation id
title	AO3 CALIBRATION OBSERVATIONS OF BETELGEUSE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	BETELGEUSE	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.703445024567	Nominal RA [deg]
dec_nom	7.4571236086273	Nominal Dec [deg]
roll_nom	16.794475286681	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4958.8112062812	Sum of GTIs [s]
liveltime	4896.0197529496	Livetime [s]
ontime0	4958.8112062812	Sum of GTIs [s]
ontime1	4958.8522462845	Sum of GTIs [s]
ontime2	4958.8932862878	Sum of GTIs [s]
ontime3	4958.9343262762	Sum of GTIs [s]
ontime6	4959.0164062828	Sum of GTIs [s]
ontime7	4958.9753662795	Sum of GTIs [s]
l2events	34090	Number of level 2 events



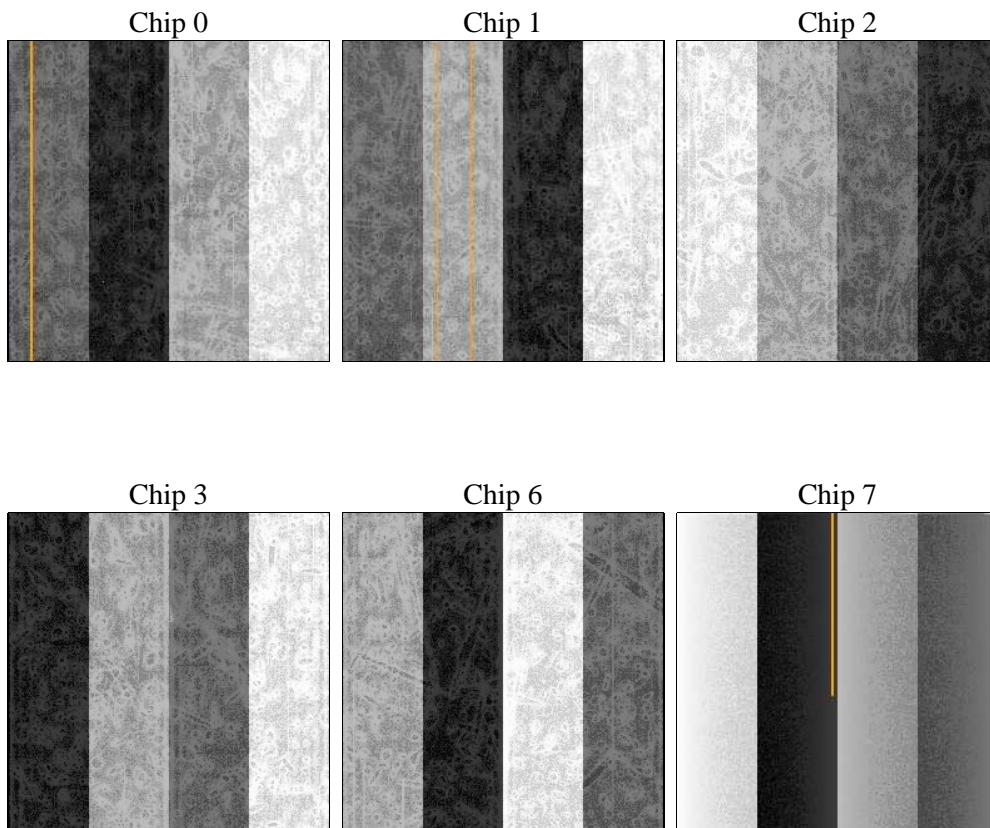
2 OBI

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	8.4.5	Processing system revision	ontime	4958.8112062812	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	4958.8112062812	Sum of GTIs [s]
date	2012-09-29T01:56:52	Date and time of file creation	ontime1	4958.8522462845	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4958.8932862878	Sum of GTIs [s]
			ontime3	4958.9343262762	Sum of GTIs [s]
			ontime6	4959.0164062828	Sum of GTIs [s]
			ontime7	4958.9753662795	Sum of GTIs [s]
			l1events	202650	Number of level 1 events

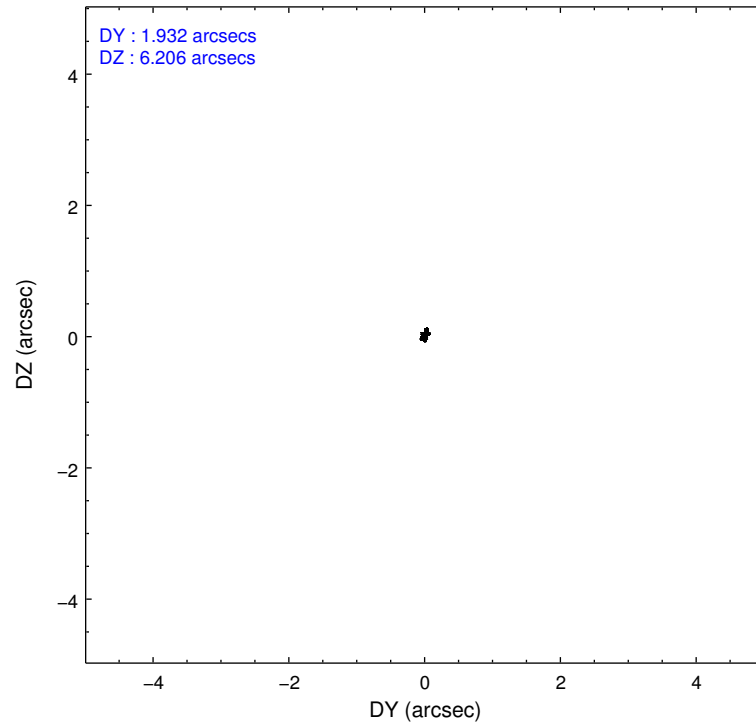
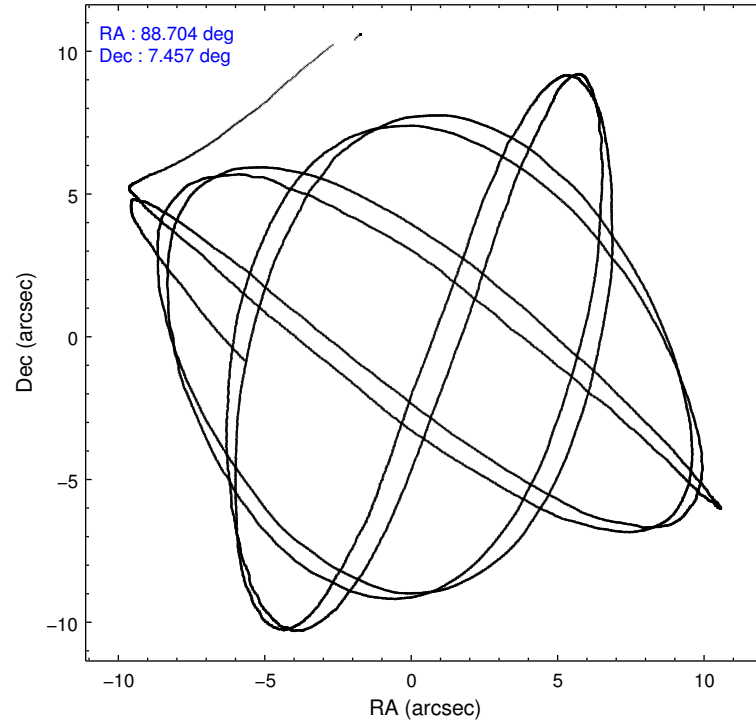
2.1.4 Events

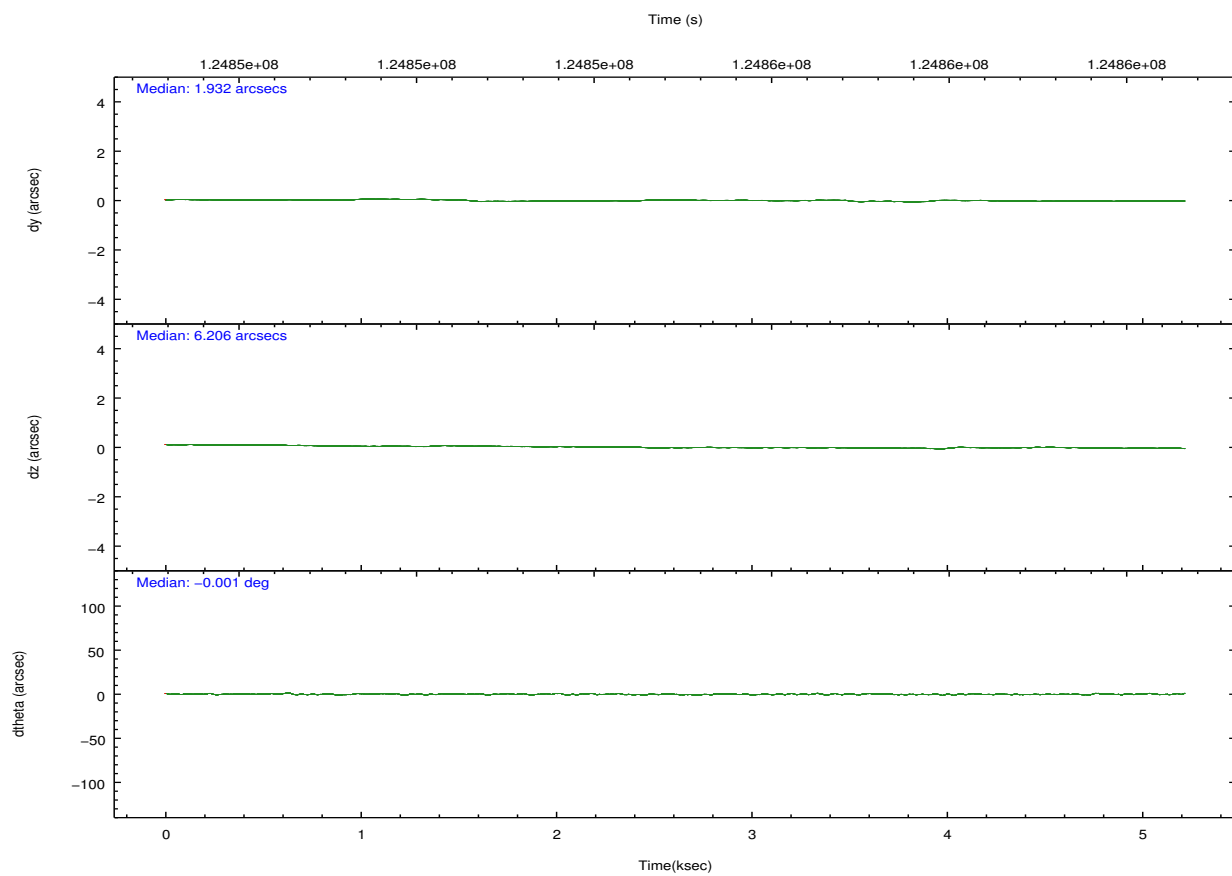
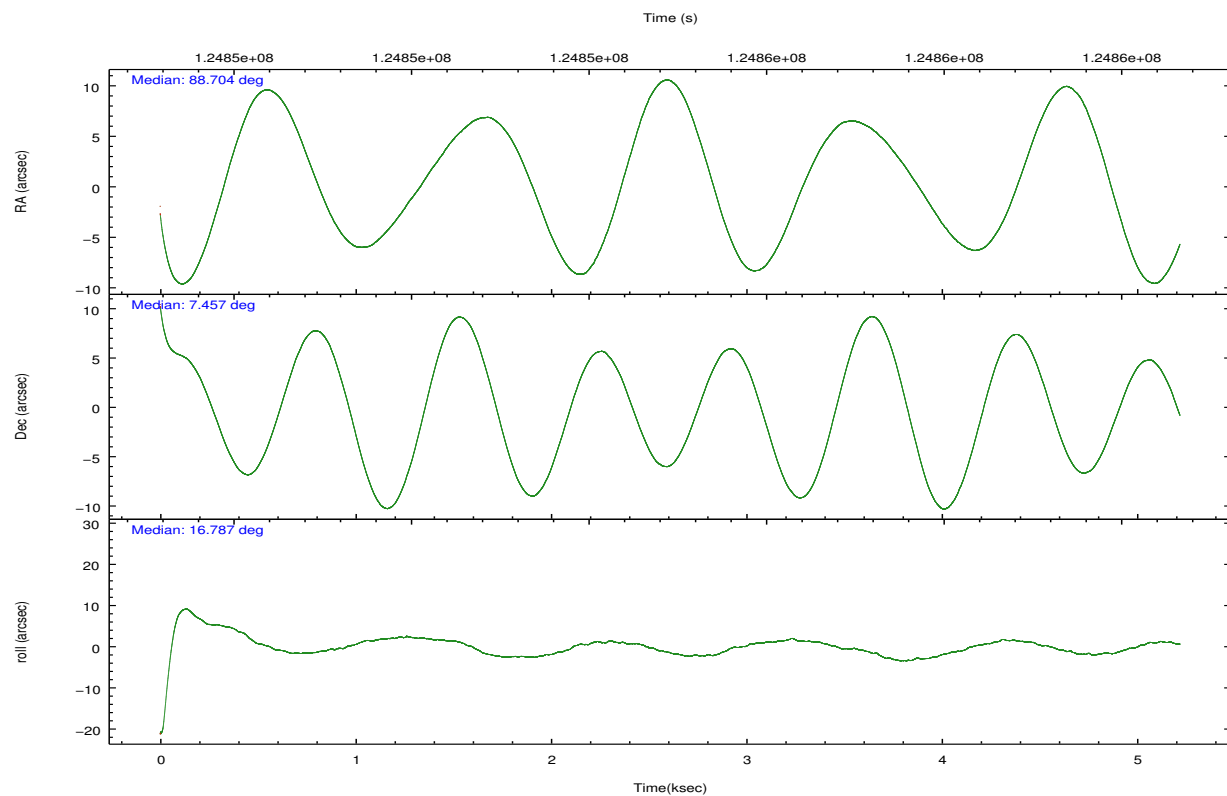
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30647	29597	32685	33043	33660	43018	grade 0 events	1583	1627	1567	1521	1508	1572
rejected events	26799	25559	28955	29318	29819	24923		5%	5%	4%	4%	4%	3%
rejected %	87%	86%	88%	88%	88%	57%	grade 1 events	20	14	16	18	18	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	871	795	769	777	771	3627
								2%	2%	2%	2%	2%	8%
							grade 3 events	386	423	364	381	403	1655
								1%	1%	1%	1%	1%	3%
							grade 4 events	332	391	372	363	384	1621
								1%	1%	1%	1%	1%	3%
							grade 5 events	1246	1309	1116	1316	1391	4234
								4%	4%	3%	3%	4%	9%
							grade 6 events	683	810	661	690	780	9642
								2%	2%	2%	2%	2%	22%
							grade 7 events	25526	24228	27820	27977	28405	20632
								83%	81%	85%	84%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	88.684665	88.70344502456668	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.437004	7.457123608627301	Alternating exposures requested	N	N
[deg] Pointing Roll	16.588287	16.79447528668121	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	123552064.184000	123552064.184000			
[s] Window stop time (MET)	128822464.184000	128822464.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	124852064.184000	124851074.50653			
Observation start date	2001-12-16T01:06:40	2001-12-16T00:51:14			
[s] Observation end time (MET)	124857064.184000	124857972.7568			
Observation end date	2001-12-16T02:30:00	2001-12-16T02:46:12			
Read mode	TIMED	TIMED			

2.3 Aspect



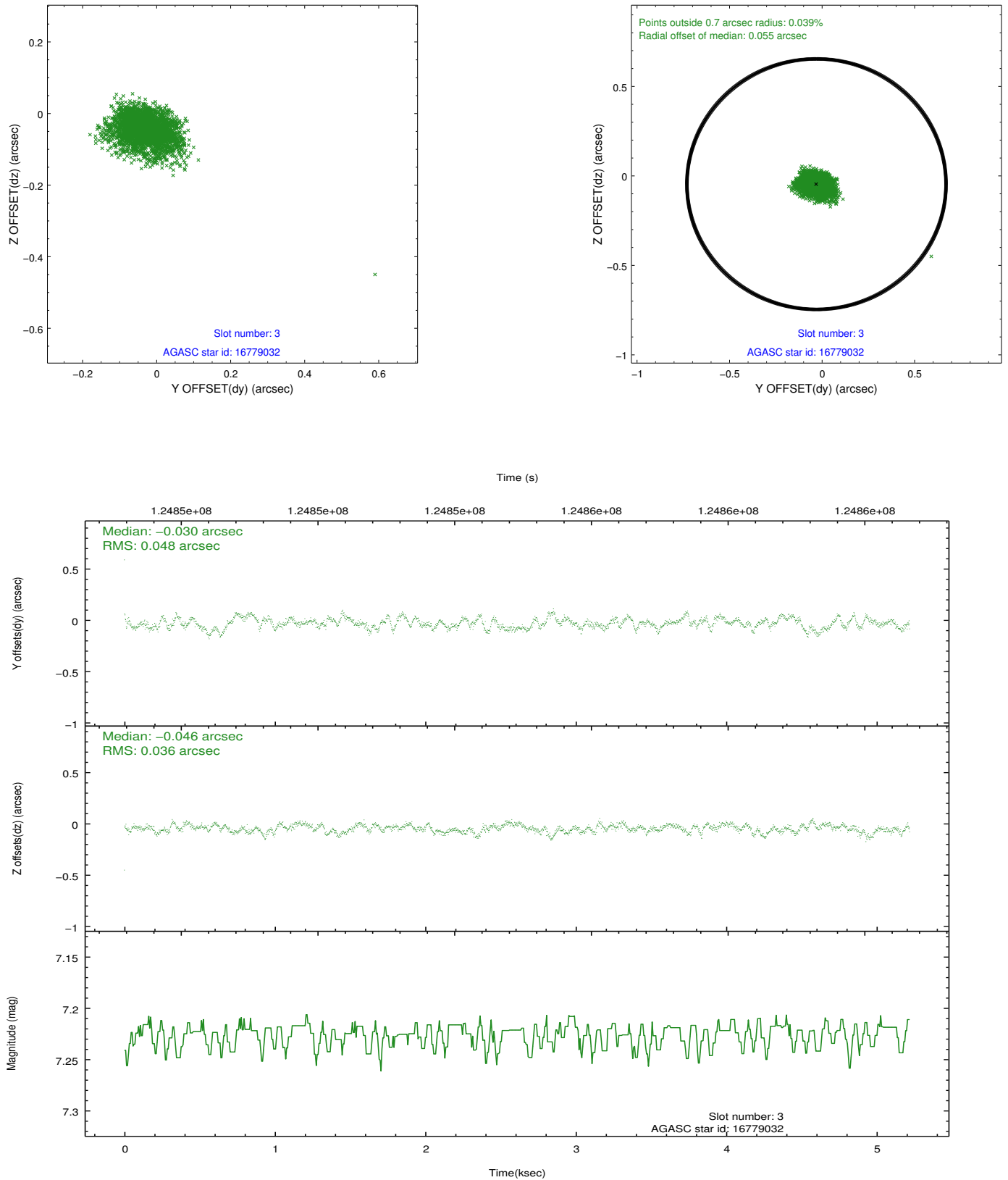


Slot Statistics

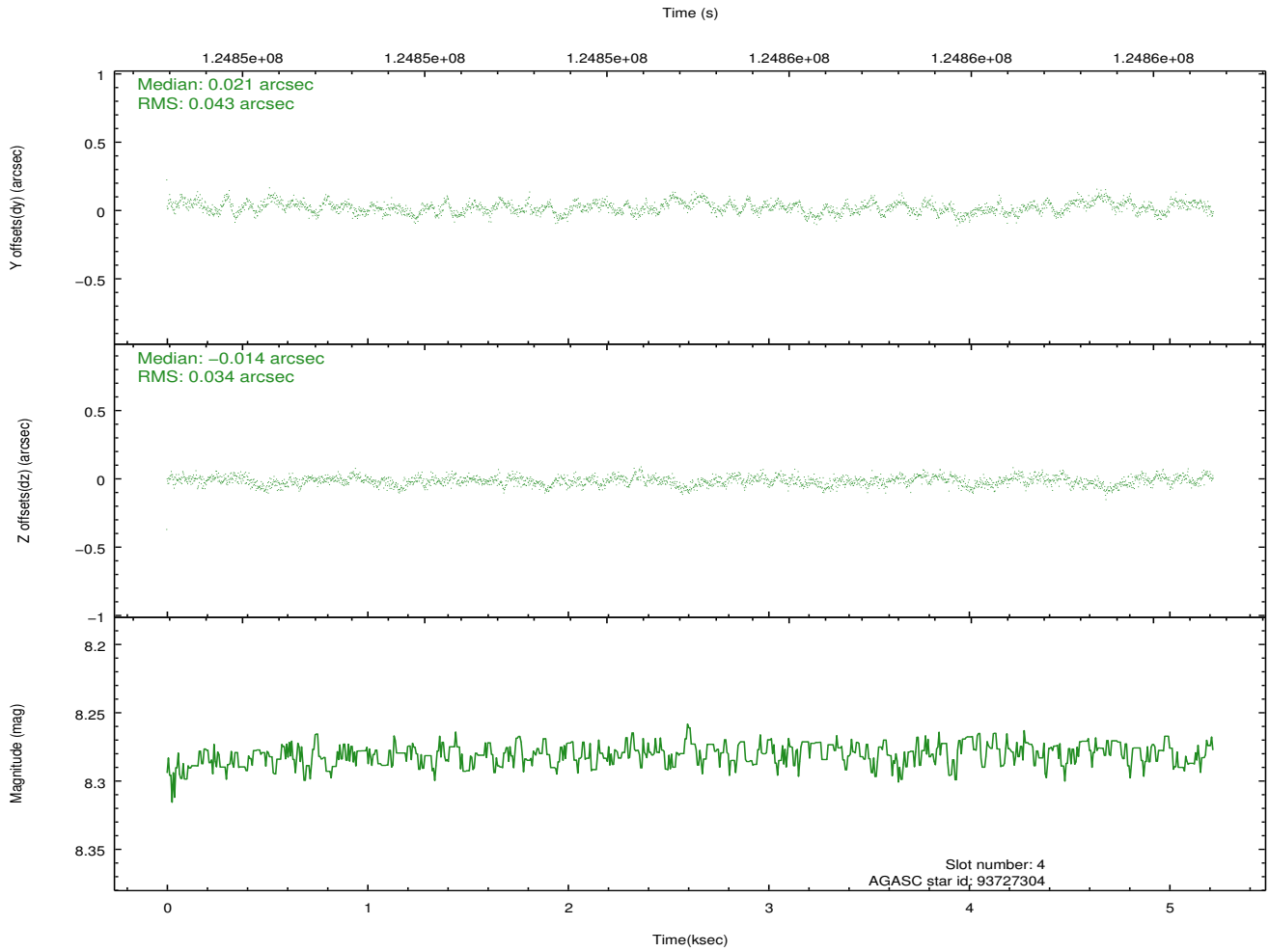
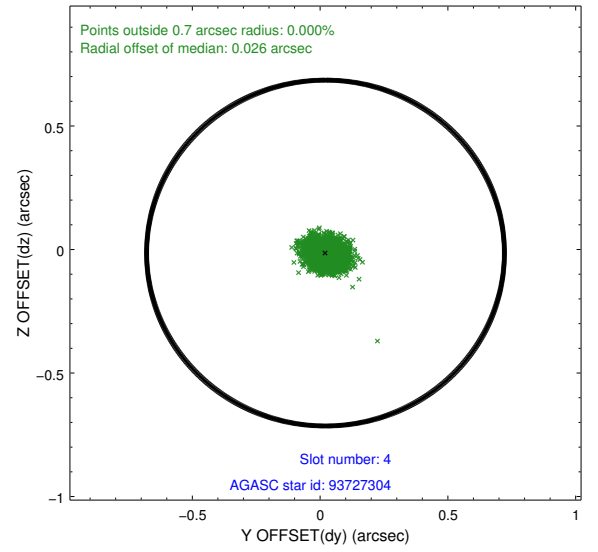
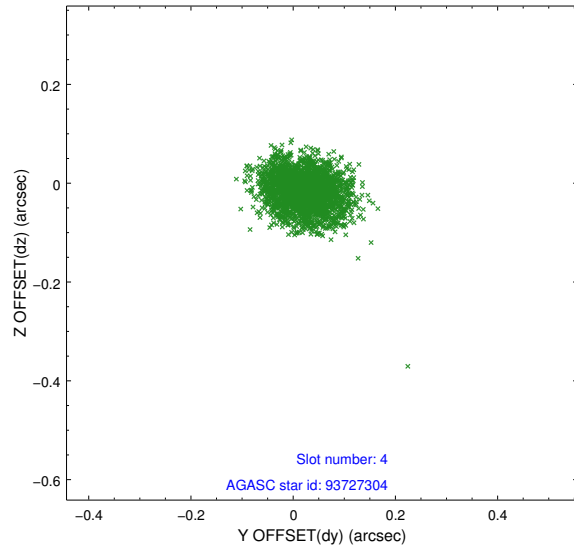
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1274	-0.009	0.004	0.006	0.011	0.000000	0.000000	937.86	-829.61
1	FID	ACIS-I-5	7.24	1274	-0.049	0.038	0.006	0.010	0.000000	0.000000	-1809.60	1067.39
2	FID	ACIS-I-6	7.27	1274	-0.033	0.028	0.007	0.011	0.000000	0.000000	402.18	1713.16
3	GUIDE	16779032	7.22	2547	-0.030	-0.046	0.063	0.102	88.070651	7.329382	-2211.41	255.68
4	GUIDE	93727304	8.28	2547	0.021	-0.014	0.058	0.092	88.040179	7.731431	-1901.48	1673.72
5	GUIDE	16913360	8.35	2547	-0.075	0.050	0.049	0.084	89.178373	7.247125	1494.19	-1156.62
6	GUIDE	16918912	8.67	2546	-0.003	0.042	0.077	0.122	89.257075	6.922287	1432.81	-2358.87
7	GUIDE	93855168	9.05	2544	0.088	-0.029	0.072	0.116	89.021483	7.846508	1572.68	1069.69

2.4 Star Slots

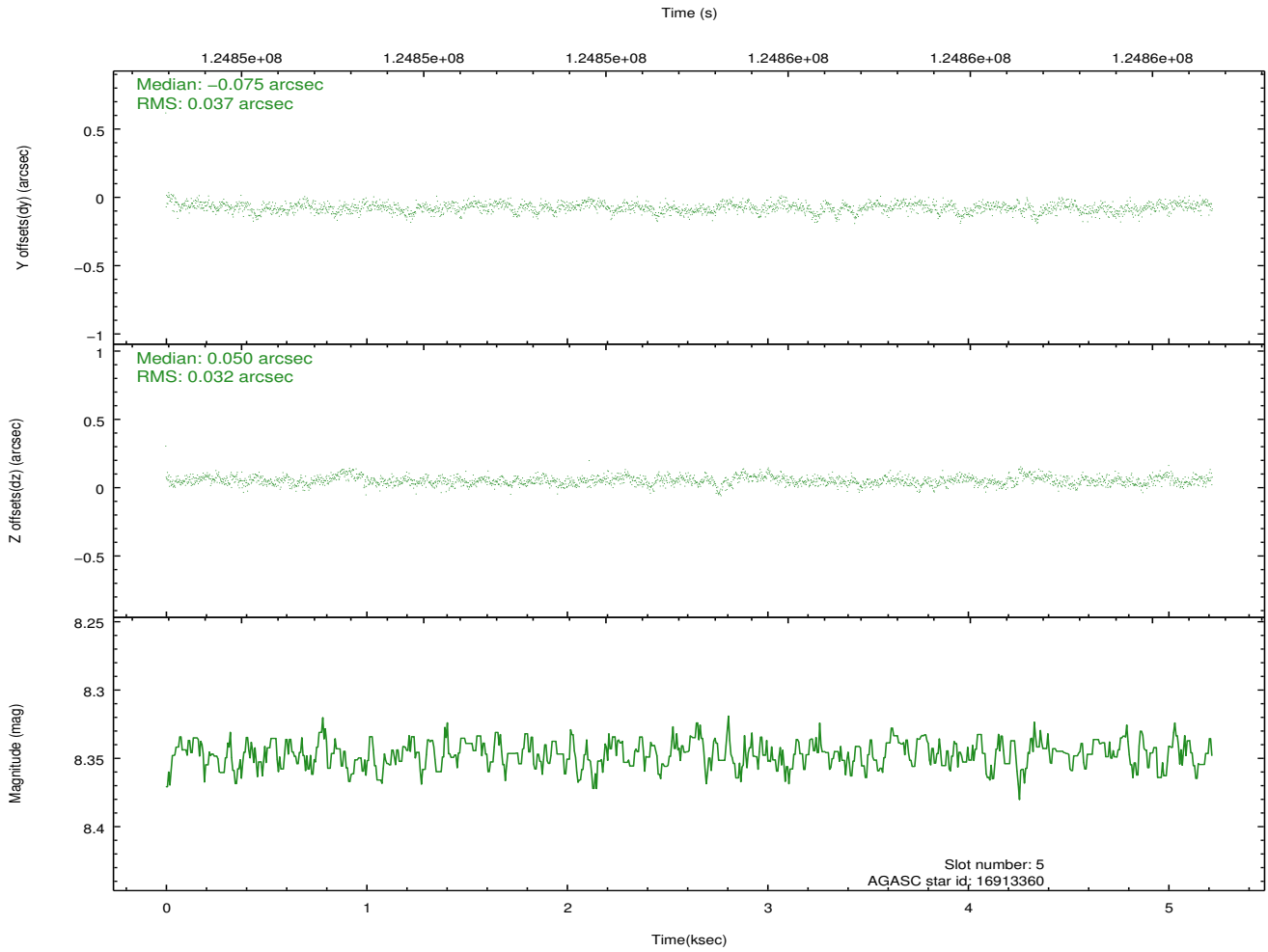
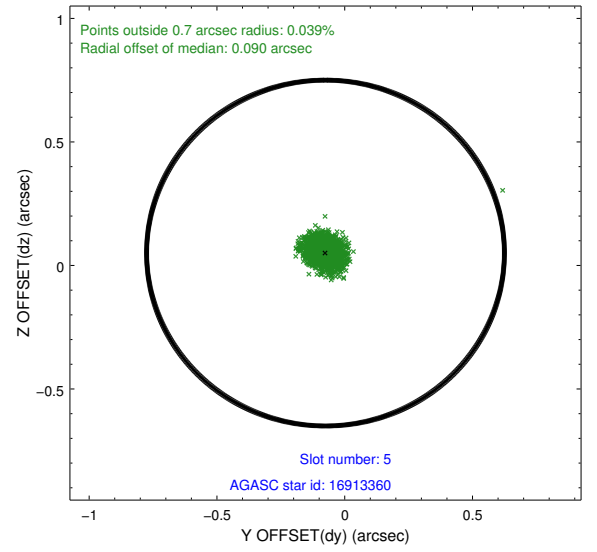
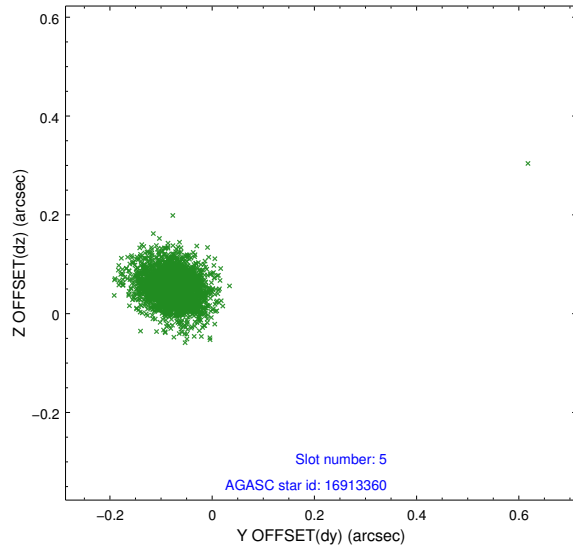
2.4.1 Slot 3



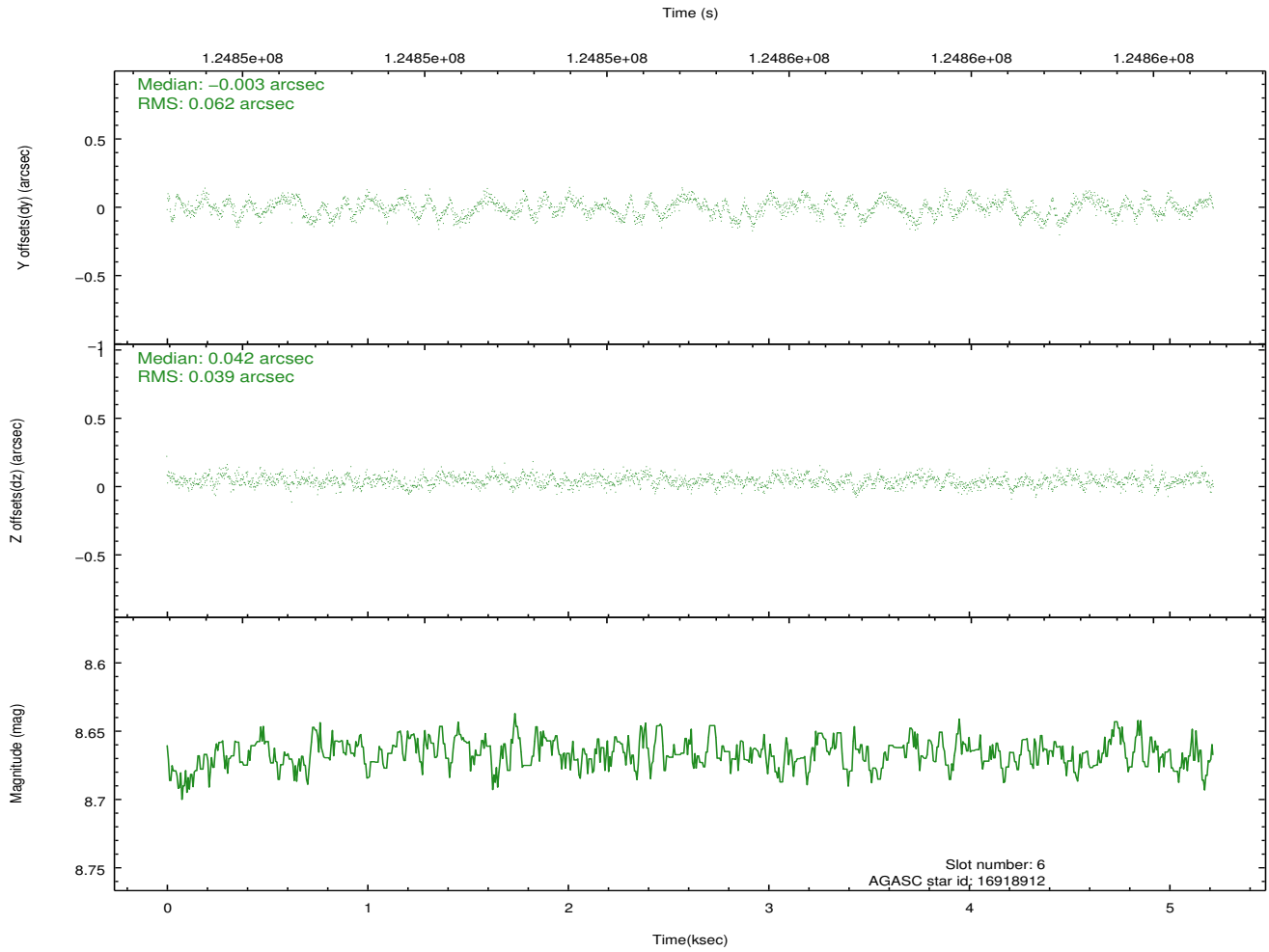
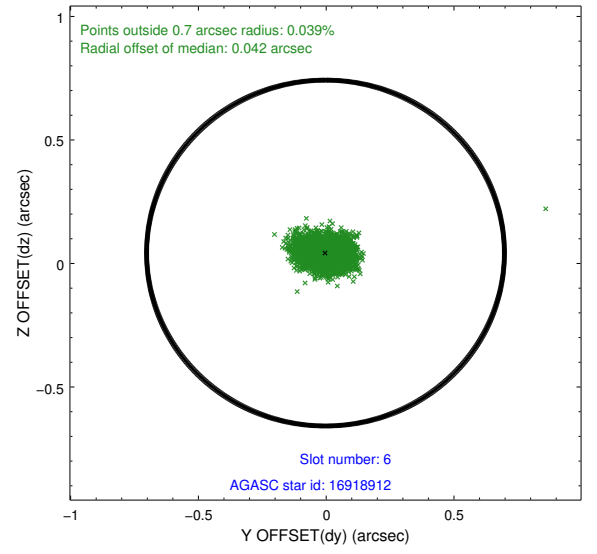
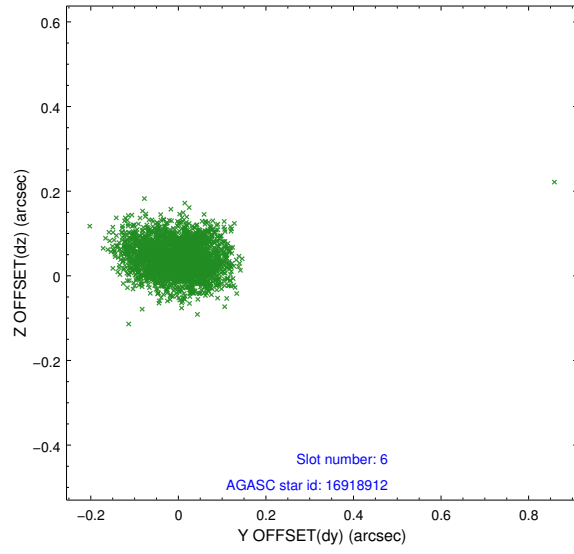
2.4.2 Slot 4



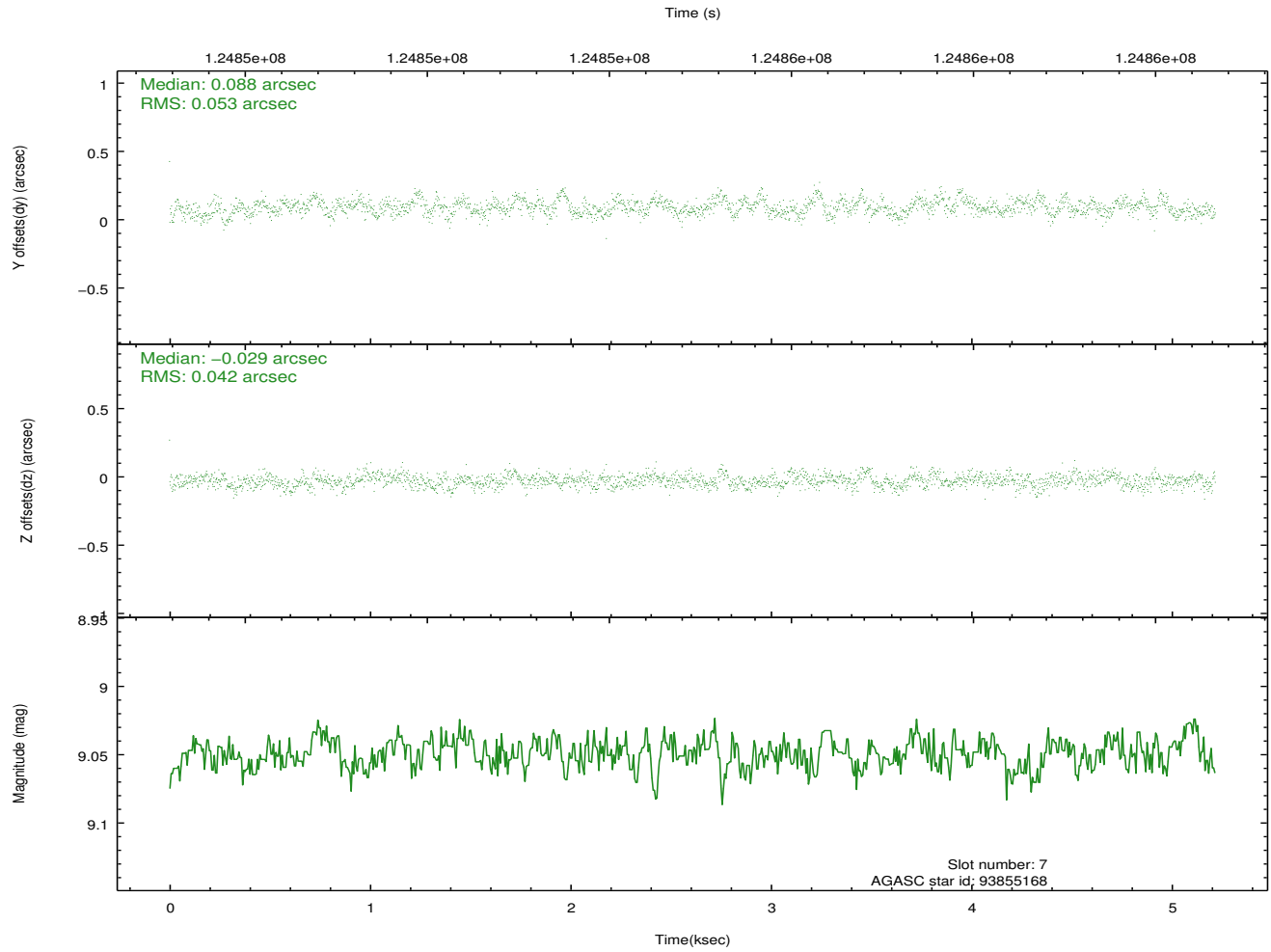
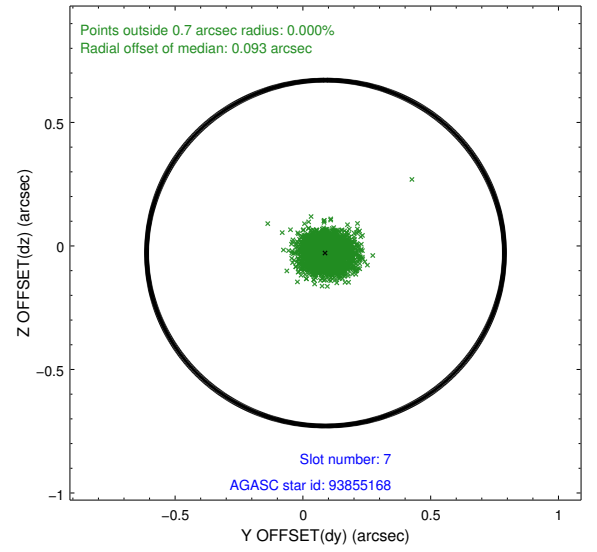
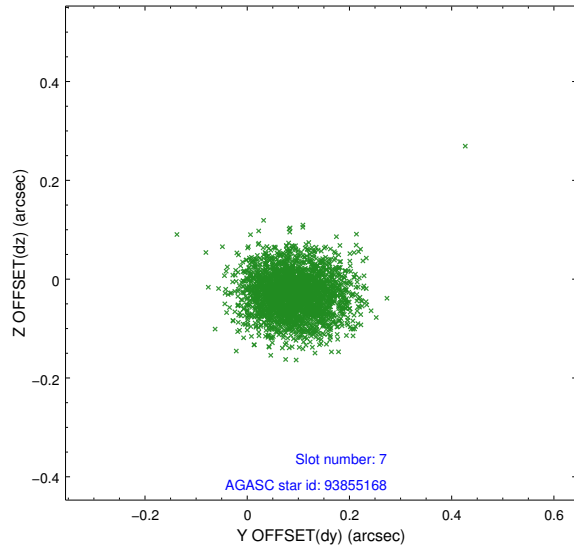
2.4.3 Slot 5



2.4.4 Slot 6

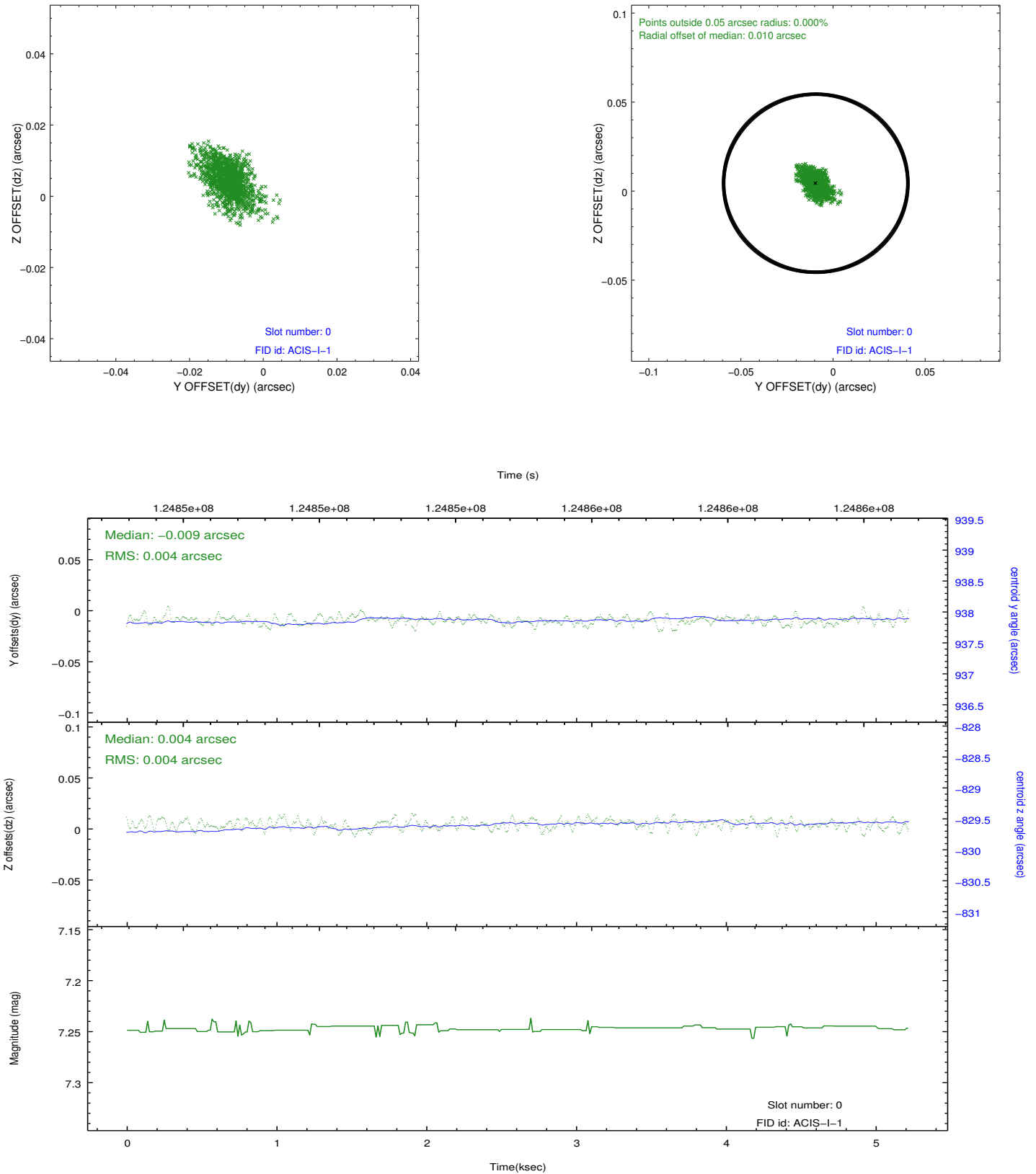


2.4.5 Slot 7

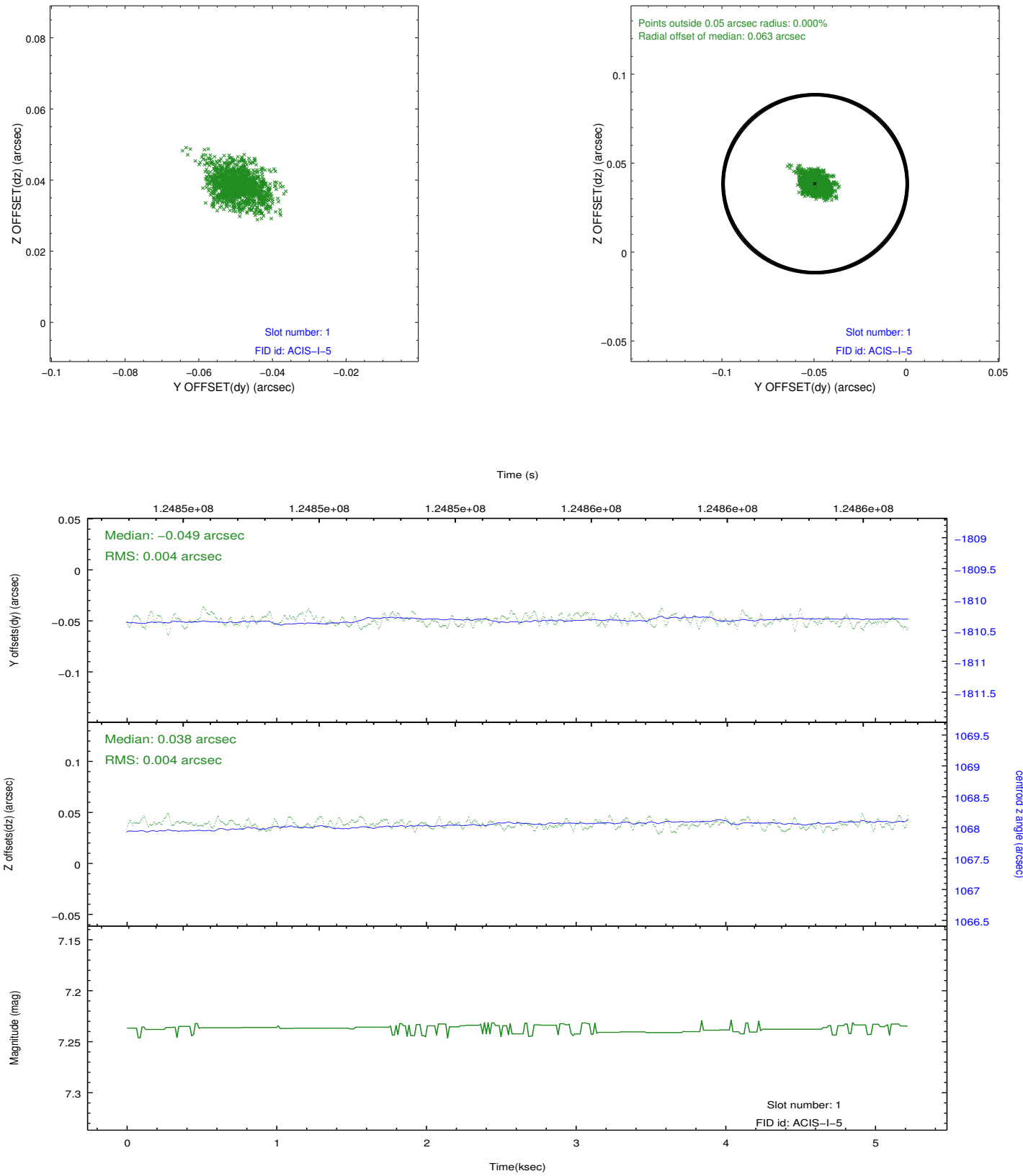


2.5 FID Slots

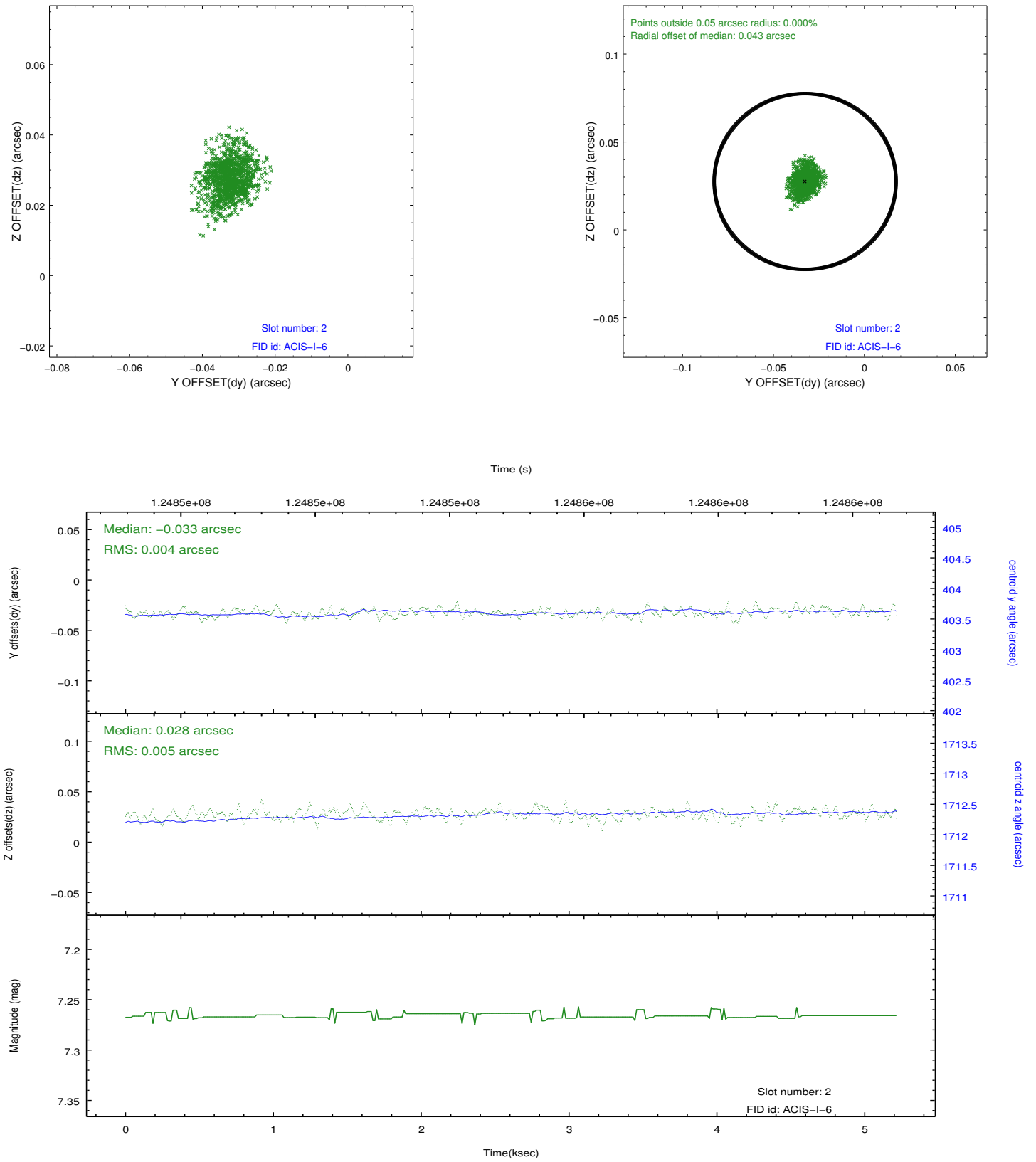
2.5.1 Slot 0



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)	2012.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96

A.2 Comments

Window preference met.