

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6820 - L2 Version 4
Chandra X-Ray Center

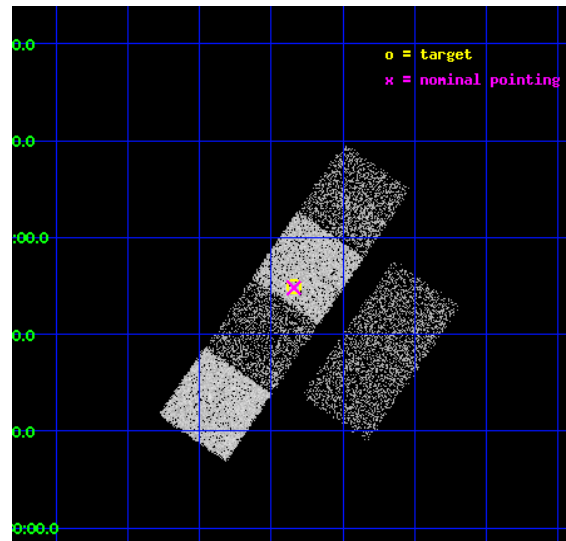
L2 Processing Date : Apr 9 2012

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1 Front

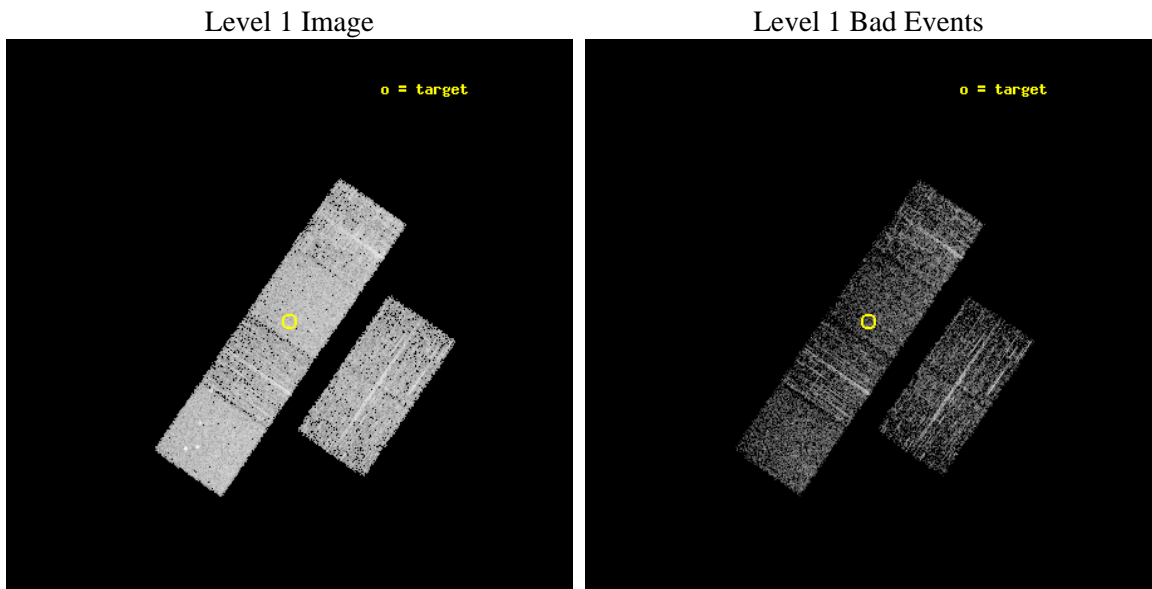
seq_num	701238	Sequence number
obs_id	6820	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SDSS J0209-0005	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	32.46125	Observer's specified target RA [deg]
dec_targ	-0.085111	Observer's specified target Dec [deg]
ra_nom	32.460637120091	Nominal RA [deg]
dec_nom	-0.086756918726837	Nominal Dec [deg]
roll_nom	304.51747077629	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2197.0271422267	Sum of GTIs [s]
livetime	2169.2070616609	Livetime [s]
ontime2	2197.06818223	Sum of GTIs [s]
ontime3	2196.9040222168	Sum of GTIs [s]
ontime5	2196.9861022234	Sum of GTIs [s]
ontime6	2196.9450622201	Sum of GTIs [s]
ontime7	2197.0271422267	Sum of GTIs [s]
ontime8	2196.8629822433	Sum of GTIs [s]
l2events	28724	Number of level 2 events



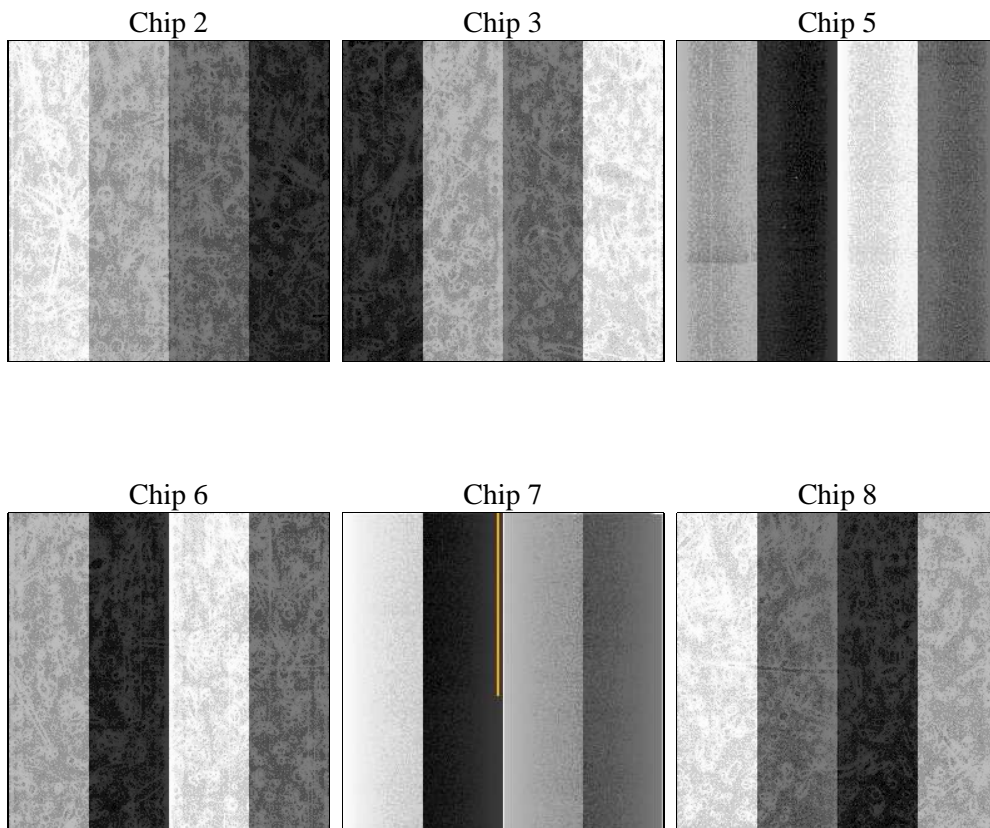
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2192.095000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	2197.0271422267	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	2197.06818223	Sum of GTIs [s]
date	2012-04-09T17:21:06	Date and time of file creation	ontime3	2196.9040222168	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2196.9861022234	Sum of GTIs [s]
			ontime6	2196.9450622201	Sum of GTIs [s]
			ontime7	2197.0271422267	Sum of GTIs [s]
			ontime8	2196.8629822433	Sum of GTIs [s]
			l1events	126910	Number of level 1 events

2.1.4 Events

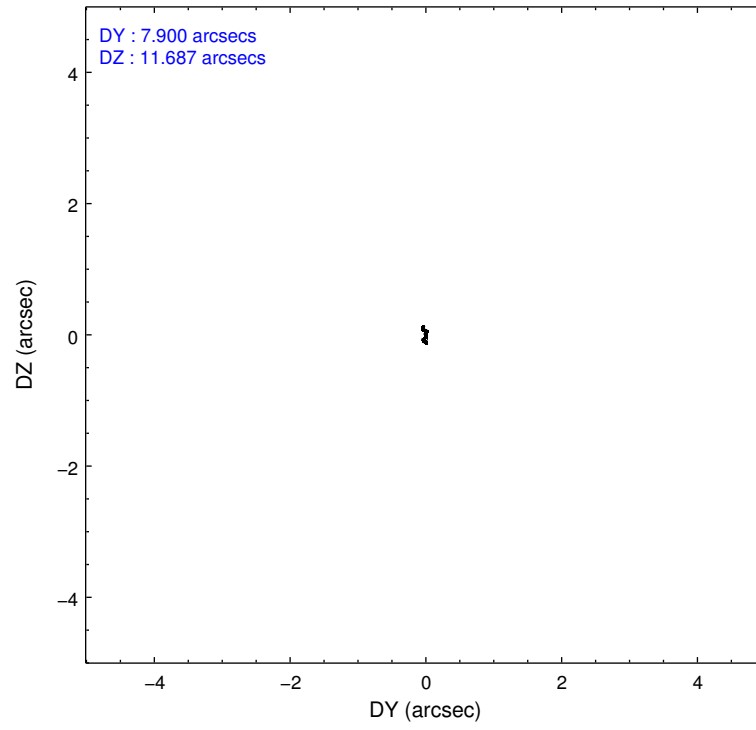
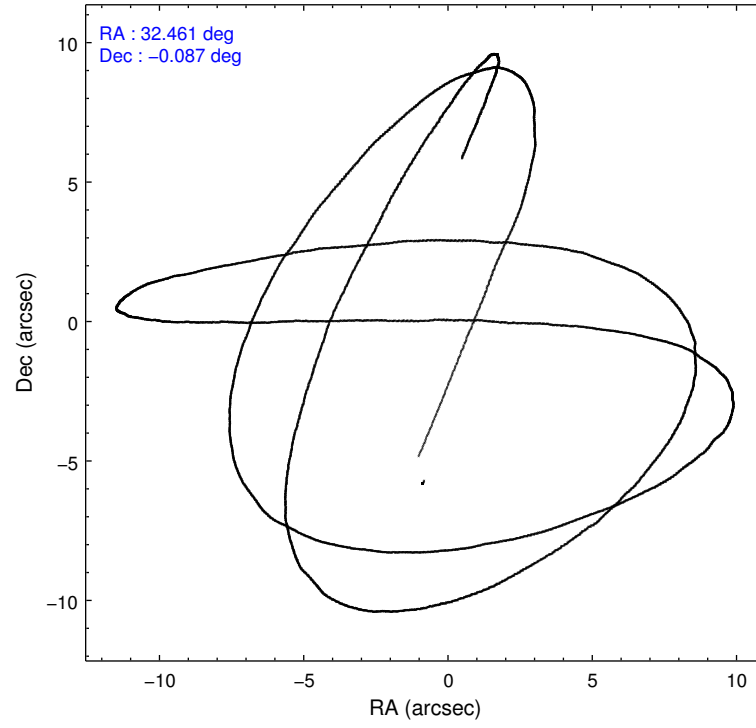
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17235	17105	26576	18071	23977	23946	grade 0 events	963	920	1429	820	844	1597
rejected events	15162	15087	14236	15985	14013	18339		5%	5%	5%	4%	3%	6%
rejected %	87%	88%	53%	88%	58%	76%	grade 1 events	15	13	53	6	30	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	402	397	3569	468	1987	1370
								2%	2%	13%	2%	8%	5%
							grade 3 events	152	198	520	196	875	555
								0%	1%	1%	1%	3%	2%
							grade 4 events	199	190	475	196	858	533
								1%	1%	1%	1%	3%	2%
							grade 5 events	666	790	1913	808	2212	1108
								3%	4%	7%	4%	9%	4%
							grade 6 events	358	317	6354	407	5419	1557
								2%	1%	23%	2%	22%	6%
							grade 7 events	14480	14280	12263	15170	11752	17208
								84%	83%	46%	83%	49%	71%

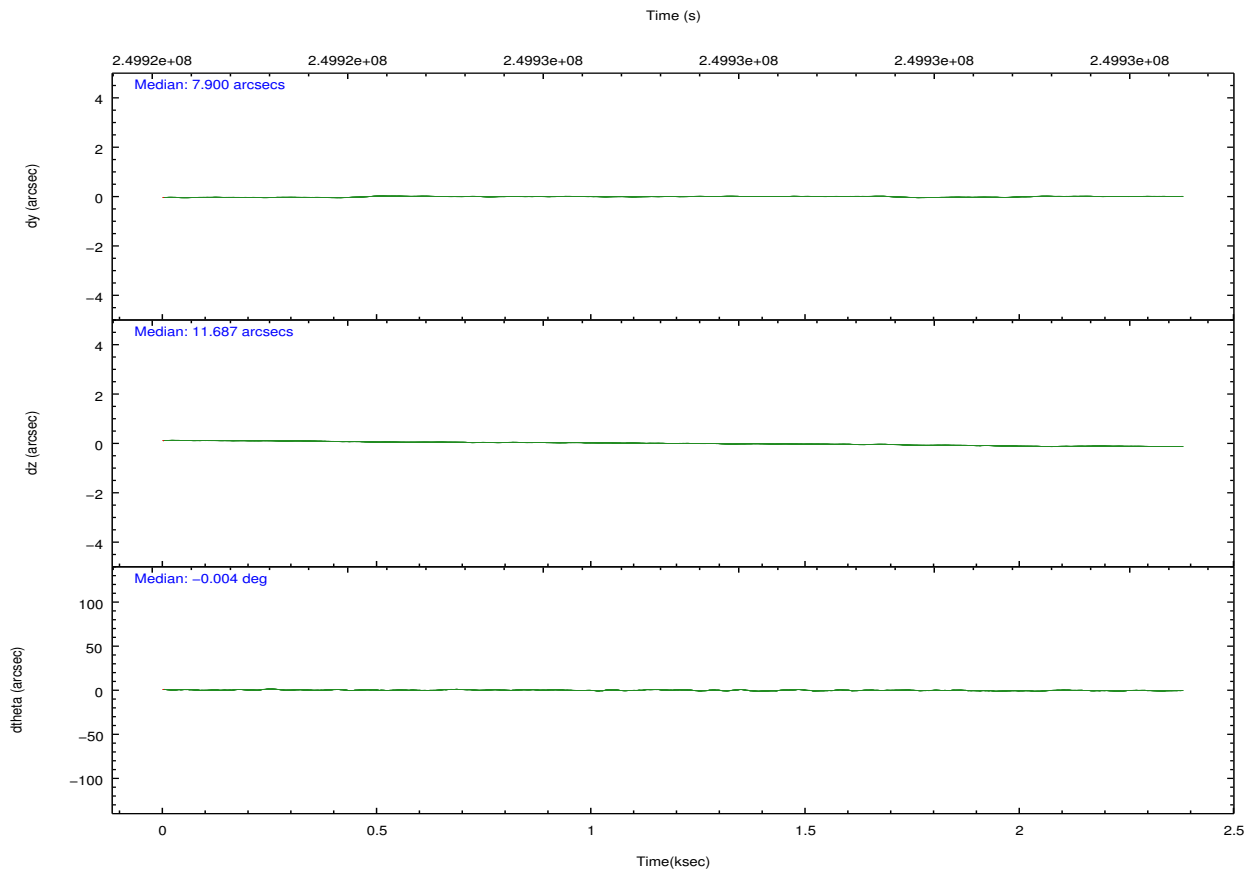
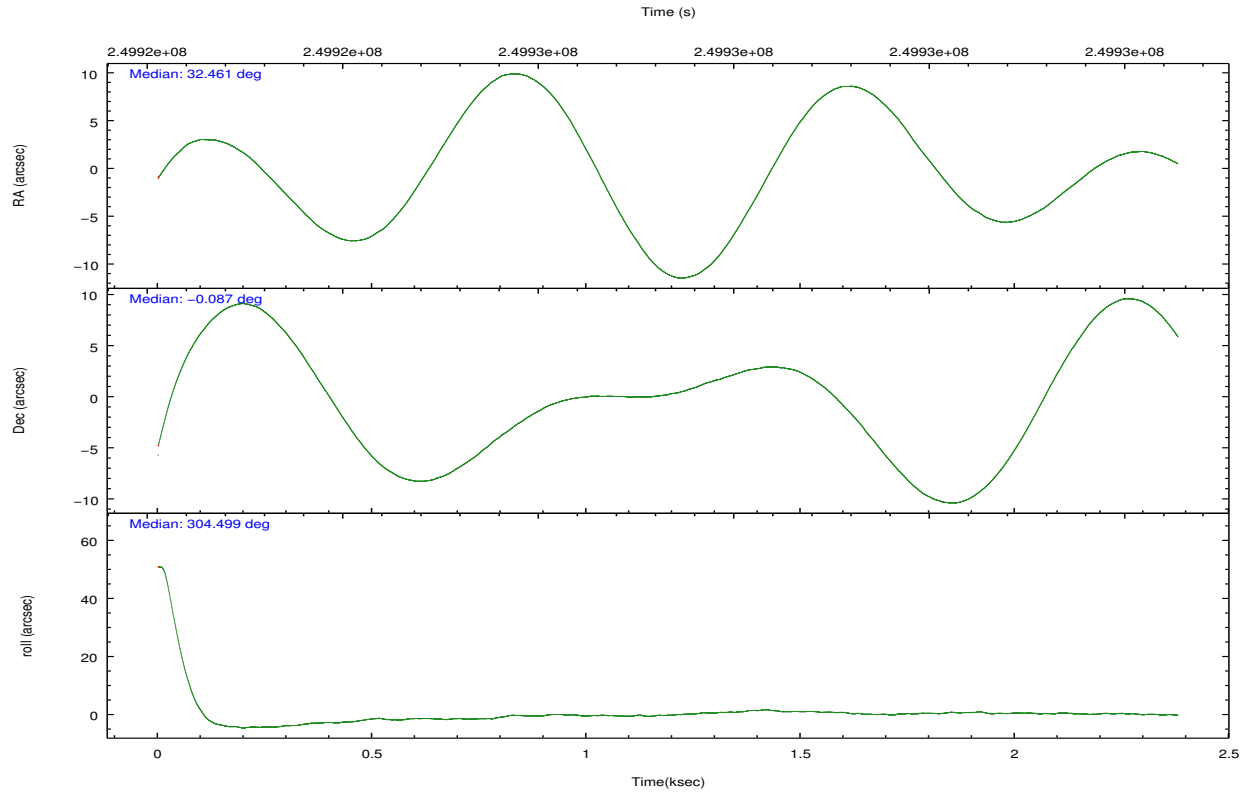
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	32.435834	32.46063712009087
[deg] Pointing Dec	-0.075704	-0.08675691872683718
[deg] Pointing Roll	304.360482	304.5174707762871
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	249924831.184000	249923791.87356
Observation start date	2005-12-02T15:32:47	2005-12-02T15:16:31
[s] Observation end time (MET)	249927023.184000	249927243.56122
Observation end date	2005-12-02T16:09:19	2005-12-02T16:14:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



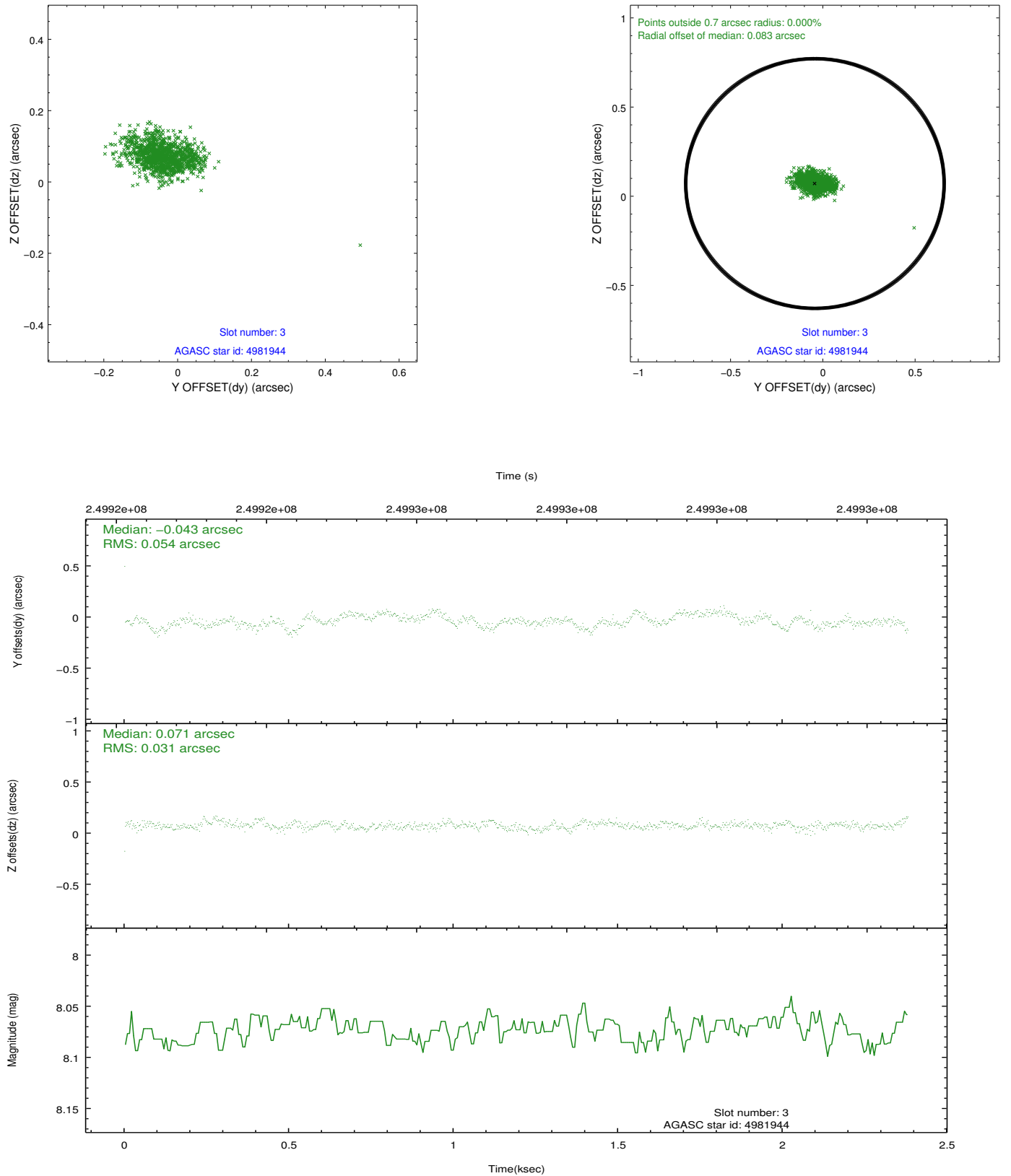


Slot Statistics

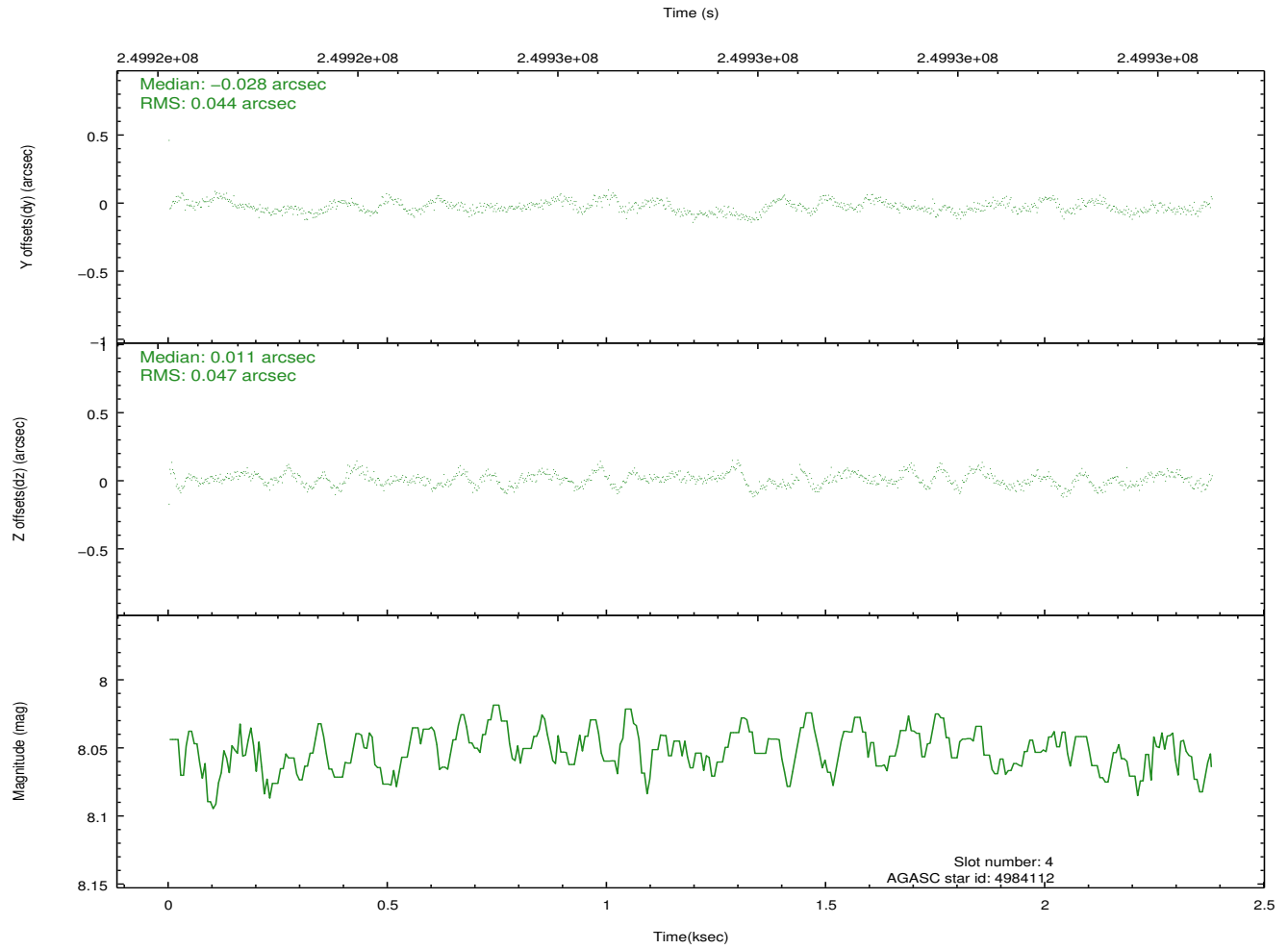
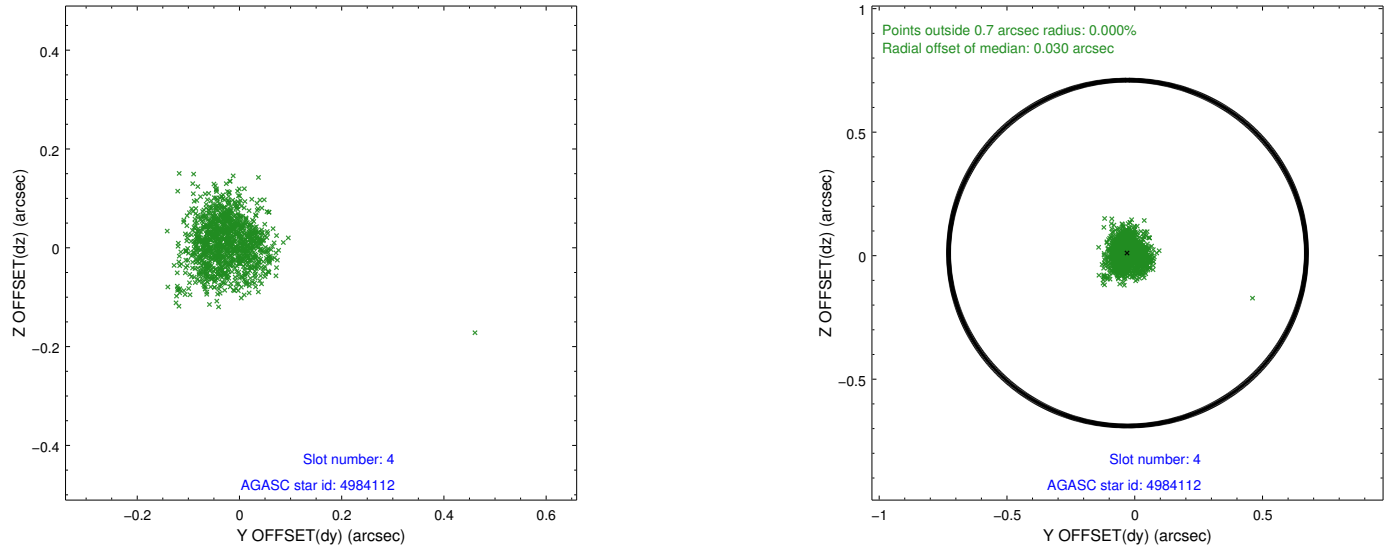
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	581	-0.022	-0.017	0.007	0.010	0.000000	0.000000	-760.67	-1732.94
1	FID	ACIS-S-4	7.21	581	0.092	0.015	0.006	0.011	0.000000	0.000000	2151.46	172.77
2	FID	ACIS-S-5	7.23	578	-0.101	0.010	0.007	0.012	0.000000	0.000000	-1810.09	169.51
3	GUIDE	4981944	8.07	1162	-0.043	0.071	0.063	0.110	32.552714	0.494378	-1456.01	1505.00
4	GUIDE	4984112	8.05	1162	-0.028	0.011	0.067	0.106	32.933733	0.223546	121.62	2088.74
5	GUIDE	614605504	7.27	1162	0.023	-0.048	0.049	0.078	32.113697	-0.419301	368.46	-1653.73
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	614728296	8.49	1160	0.047	-0.034	0.076	0.115	32.601360	-0.092275	387.23	456.30

2.4 Star Slots

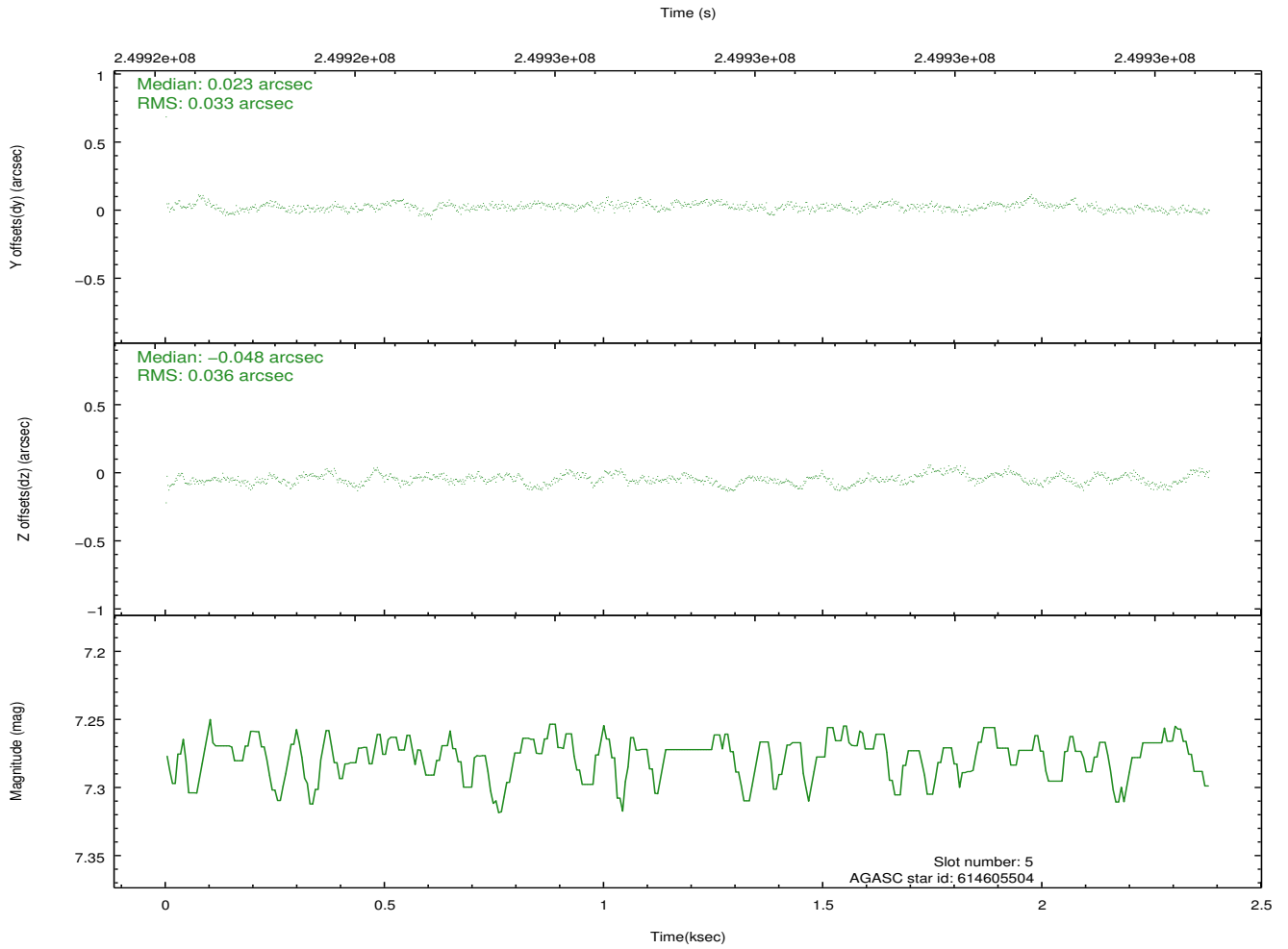
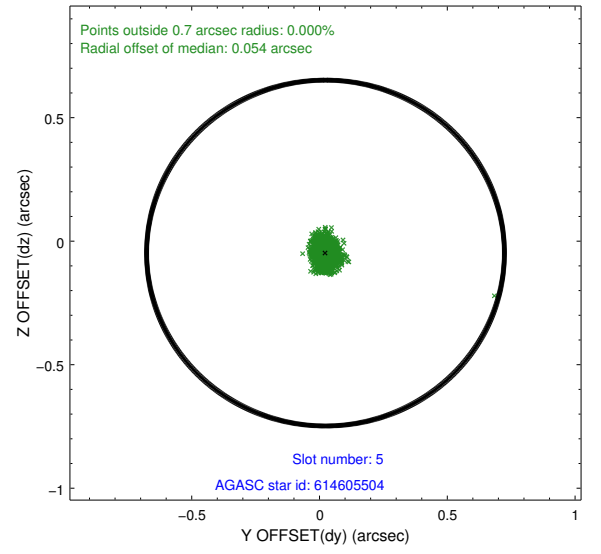
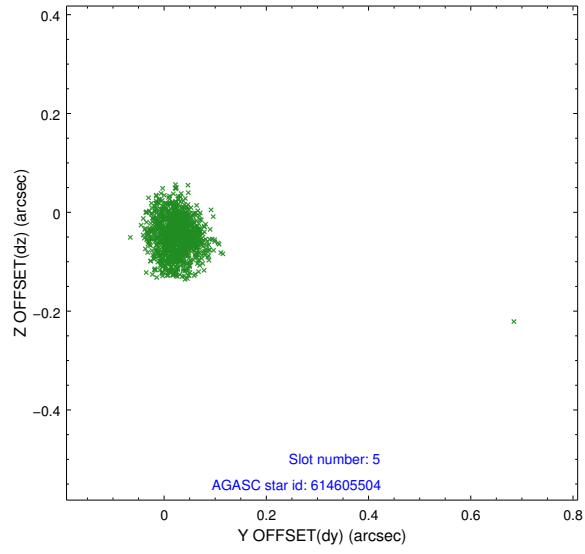
2.4.1 Slot 3



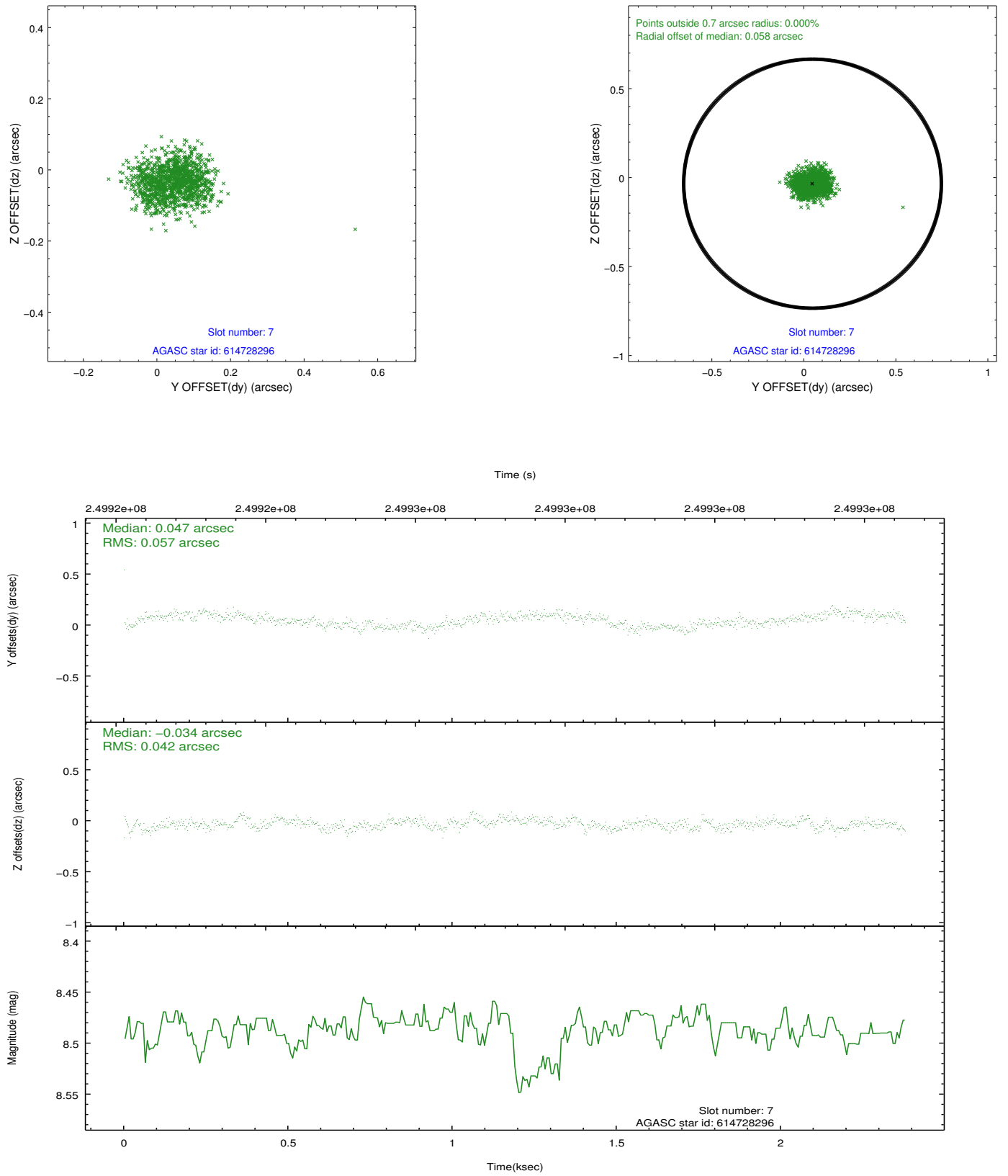
2.4.2 Slot 4



2.4.3 Slot 5

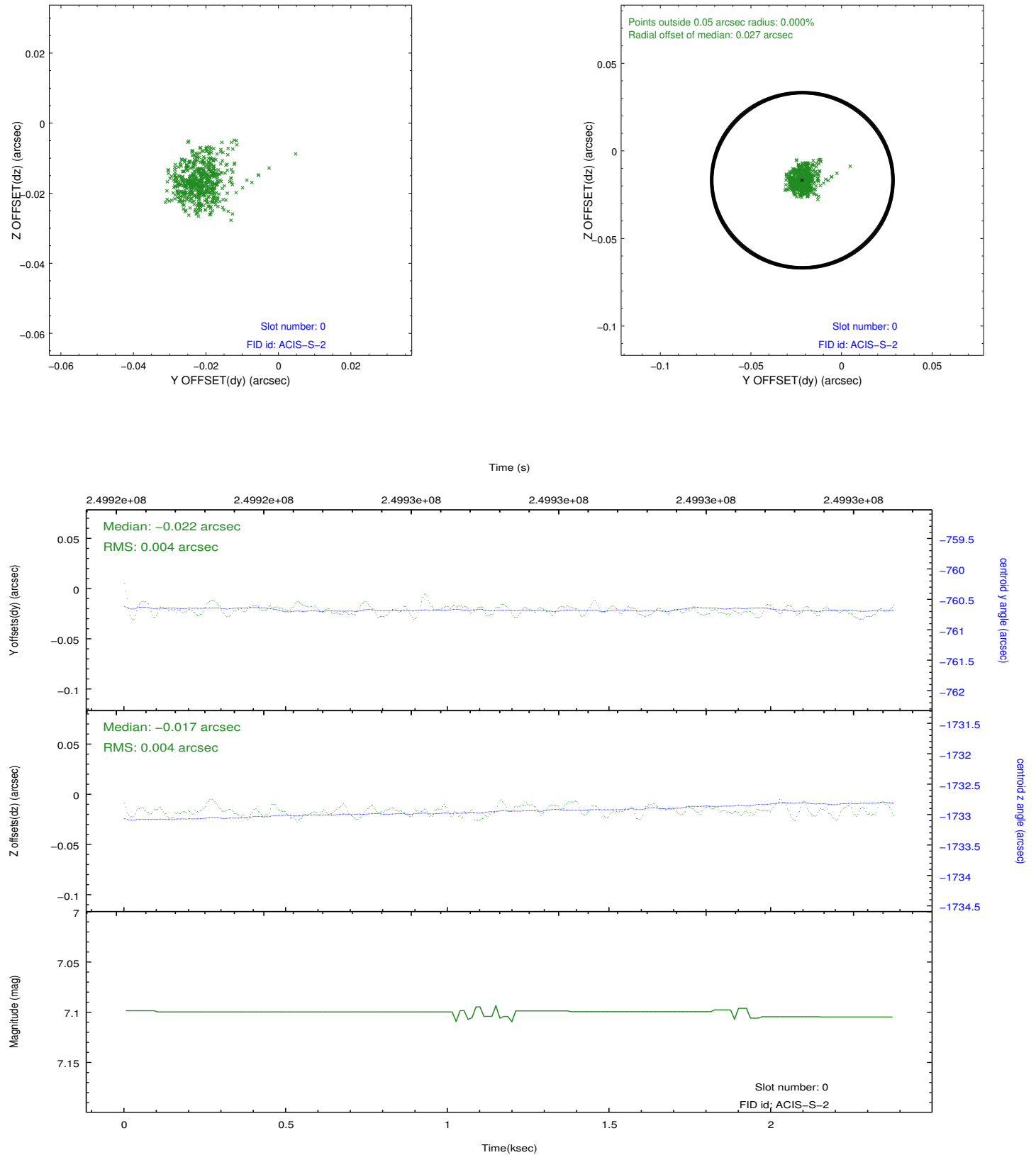


2.4.4 Slot 7

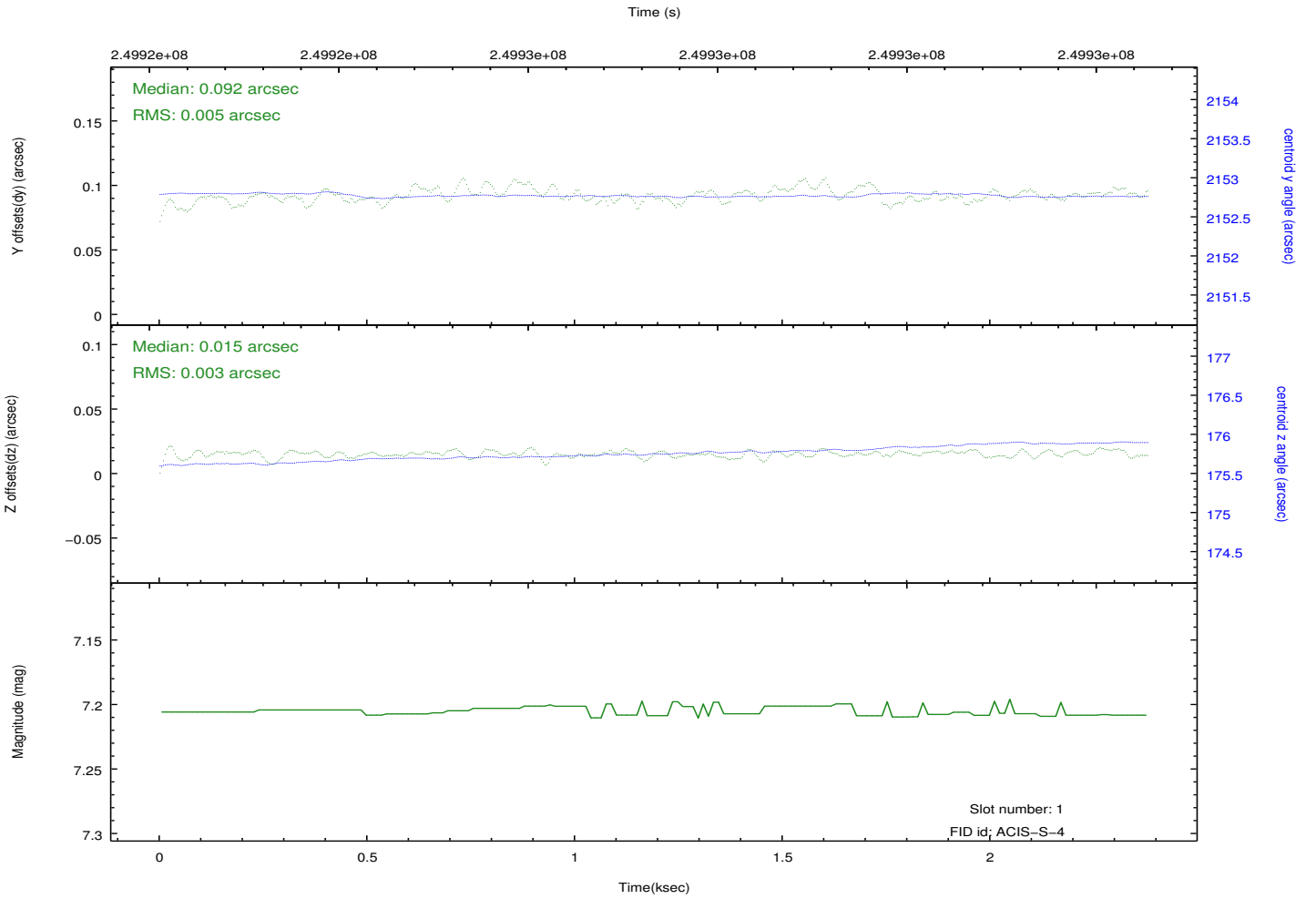
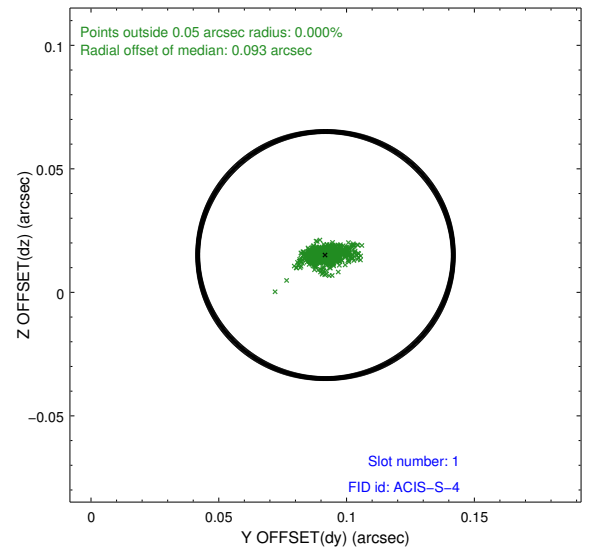
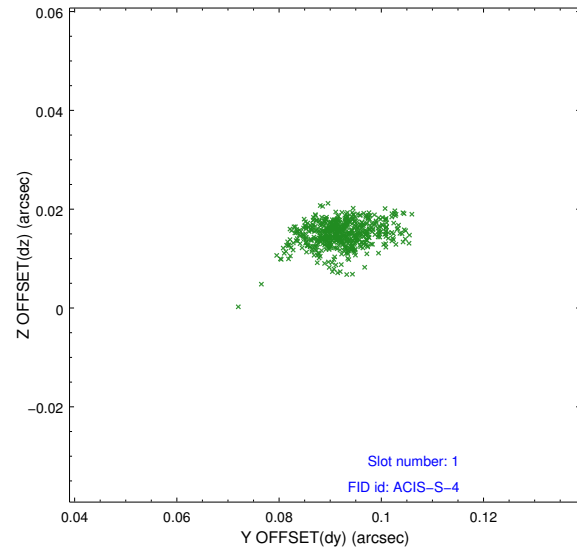


2.5 FID Slots

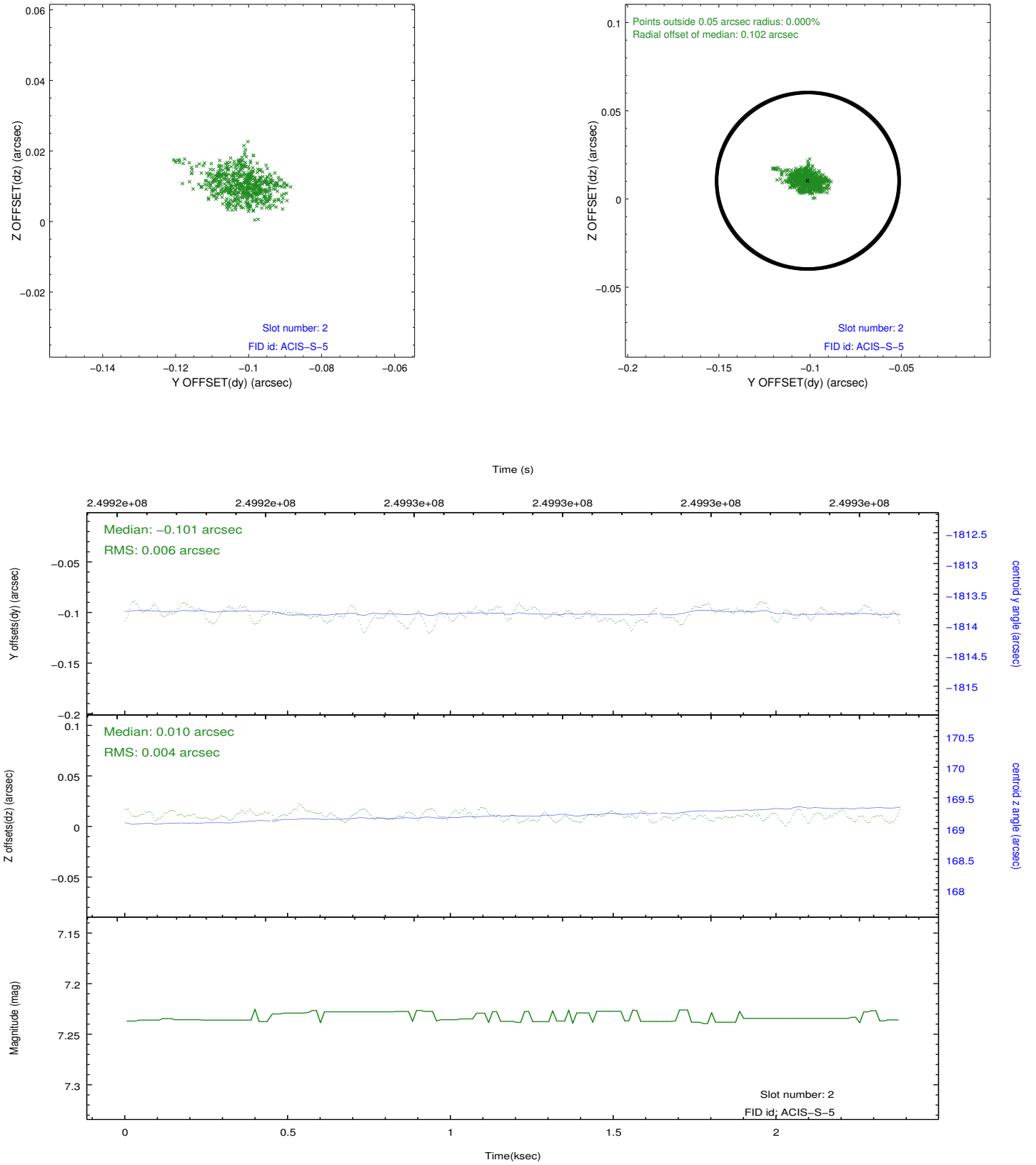
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.198399

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to low-accuracy coordinates. The aspect solution is improved by the removal of this guide star from the solution.