

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5142 - L2 Version 3
Chandra X-Ray Center

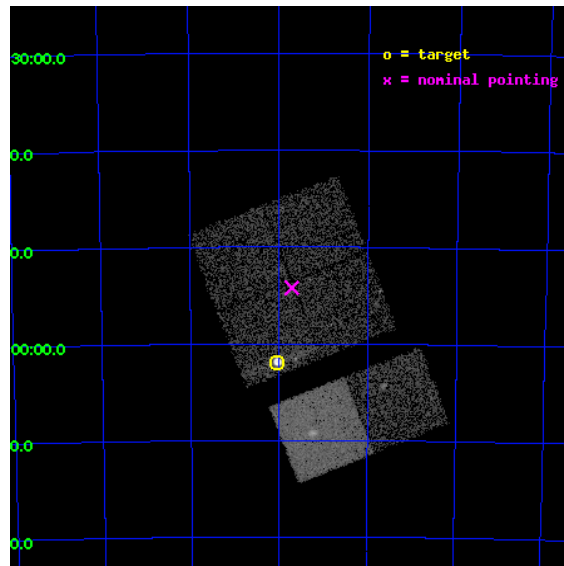
L2 Processing Date : Nov 30 2012

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1 Front

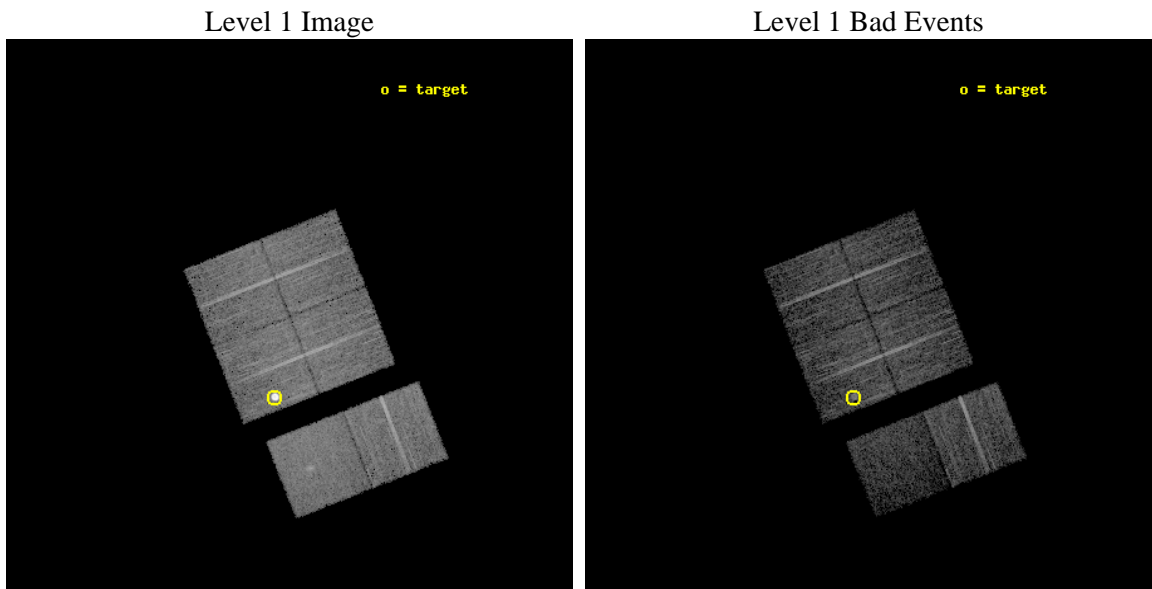
seq_num	590340	Sequence number
obs_id	5142	Observation id
title	AO5B ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-4.0,6.5,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.92799343363	Nominal RA [deg]
dec_nom	-71.903571177028	Nominal Dec [deg]
roll_nom	158.54614434723	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7756.7999711037	Sum of GTIs [s]
livetime	7658.5786992854	Livetime [s]
ontime0	7756.7999711037	Sum of GTIs [s]
ontime1	7756.7999711037	Sum of GTIs [s]
ontime2	7756.7999711037	Sum of GTIs [s]
ontime3	7756.7999711037	Sum of GTIs [s]
ontime6	7756.7999711037	Sum of GTIs [s]
ontime7	7756.7999711037	Sum of GTIs [s]
l2events	57600	Number of level 2 events



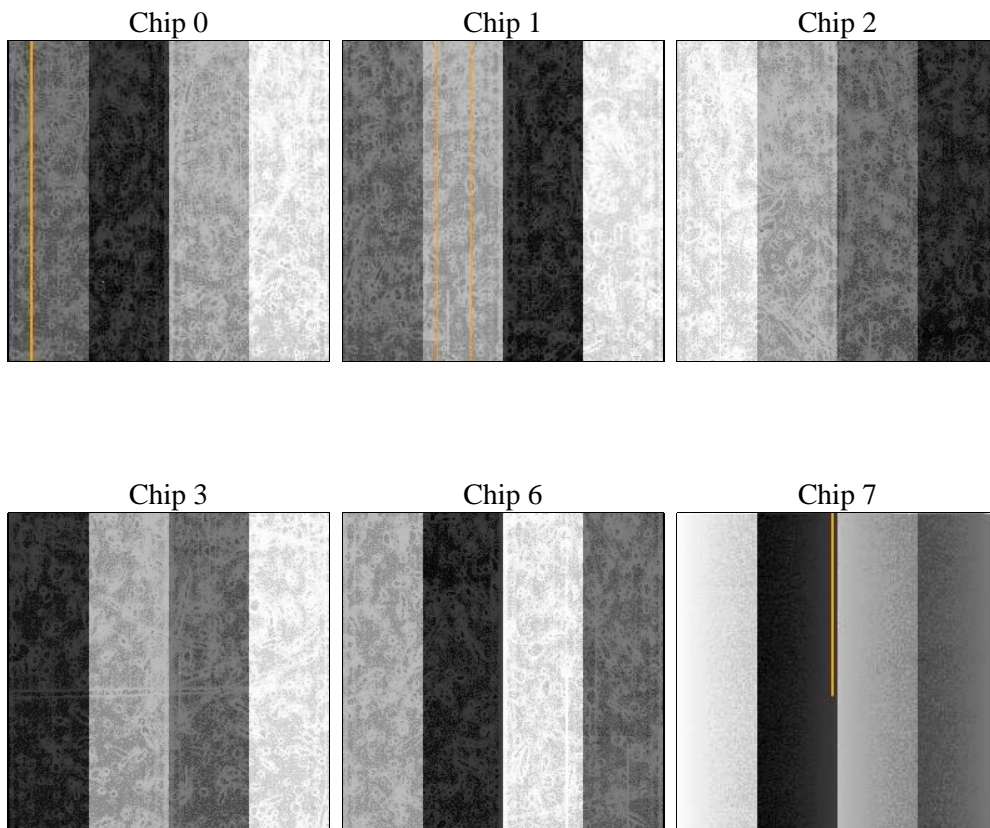
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7756.7999711037	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	7756.7999711037	Sum of GTIs [s]
date	2012-11-30T16:07:46	Date and time of file creation	ontime1	7756.7999711037	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7756.7999711037	Sum of GTIs [s]
			ontime3	7756.7999711037	Sum of GTIs [s]
			ontime6	7756.7999711037	Sum of GTIs [s]
			ontime7	7756.7999711037	Sum of GTIs [s]
			l1events	272680	Number of level 1 events

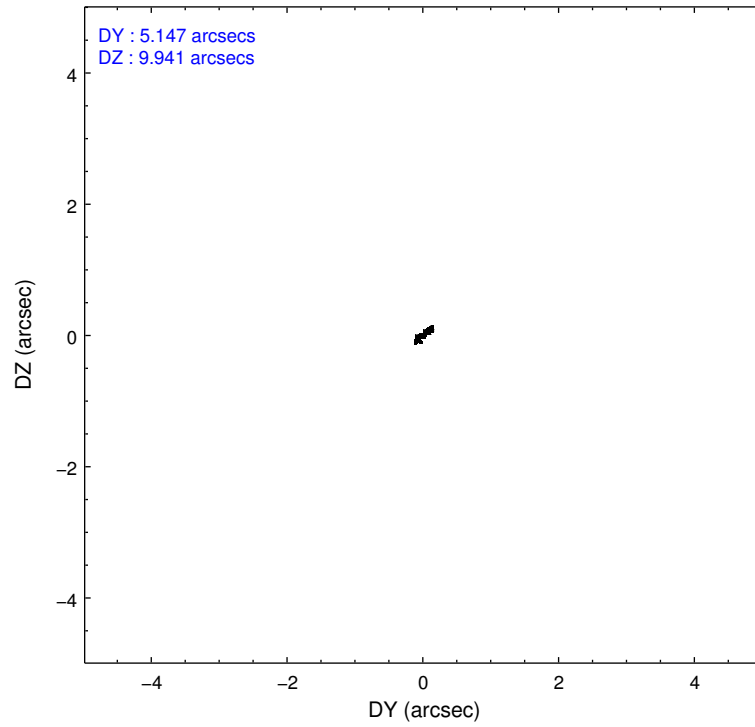
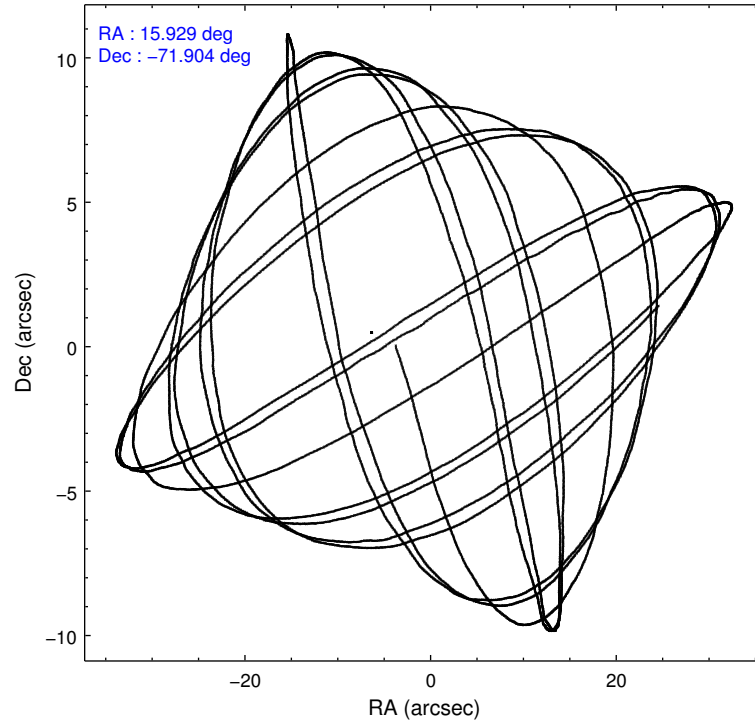
2.1.4 Events

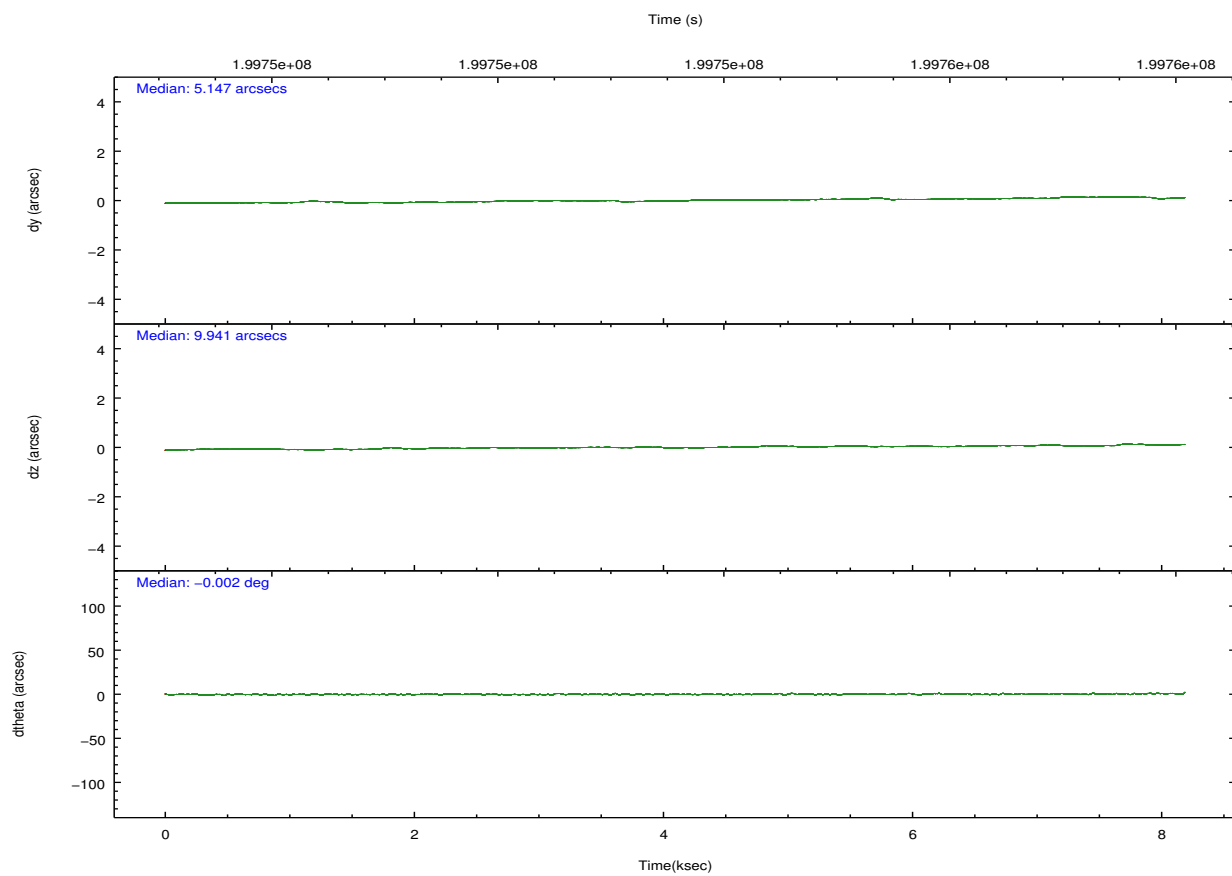
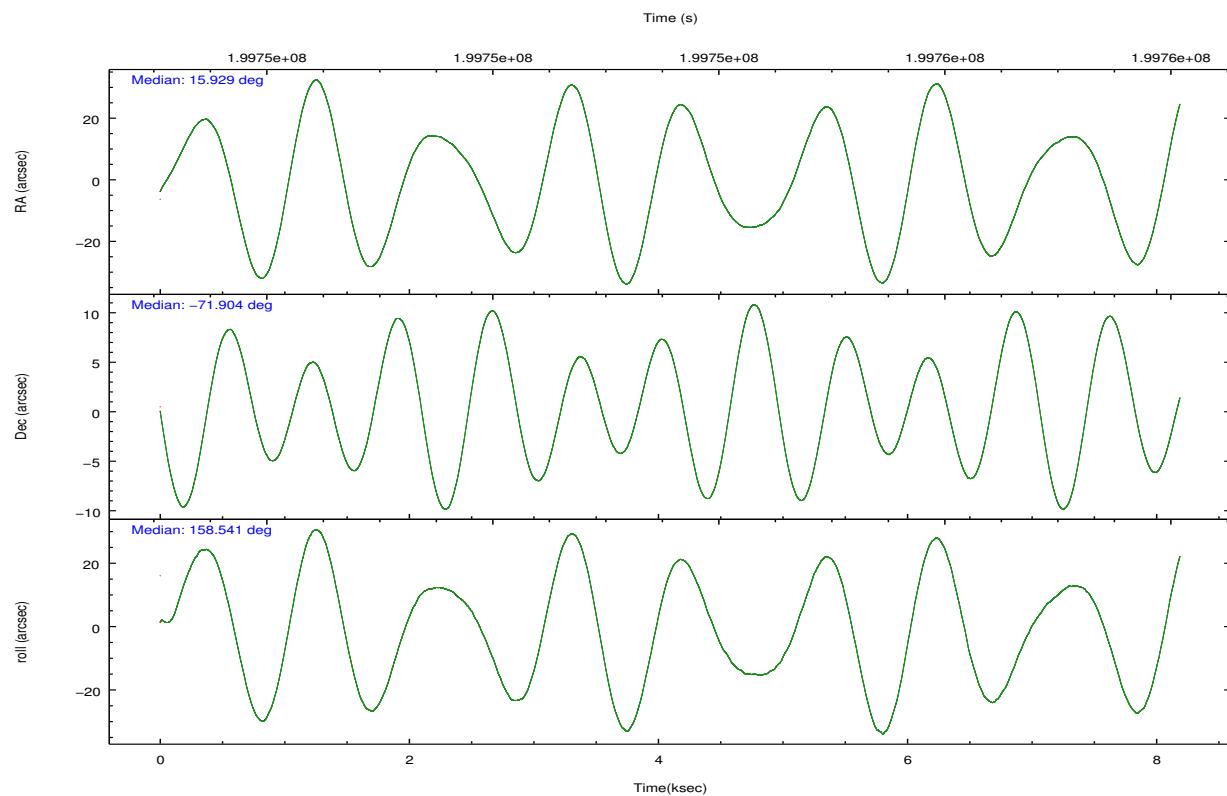
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	39209	39675	43362	64967	43764	41703	grade 0 events	1562	1420	1648	19821	1817	2265
rejected events	35033	35420	39130	40294	39125	21038		3%	3%	3%	30%	4%	5%
rejected %	89%	89%	90%	62%	89%	50%	grade 1 events	17	17	21	177	21	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	977	965	964	2240	911	4467
								2%	2%	2%	3%	2%	10%
							grade 3 events	467	511	462	794	505	2025
								1%	1%	1%	1%	1%	4%
							grade 4 events	443	524	490	883	512	1986
								1%	1%	1%	1%	1%	4%
							grade 5 events	1275	1320	1243	1496	1486	4457
								3%	3%	2%	2%	3%	10%
							grade 6 events	731	837	669	946	895	9936
								1%	2%	1%	1%	2%	23%
							grade 7 events	33737	34081	37865	38610	37617	16521
								86%	85%	87%	59%	85%	39%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.015153	15.92799343362995	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.899302	-71.90357117702762	Alternating exposures requested	N	N
[deg] Pointing Roll	158.420312	158.546144347232	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	197164864.184000	197164864.184000			
[s] Window stop time (MET)	199670464.184000	199670464.184000			
[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)	199749659.184000	199749283.15567			
Observation start date	2004-04-30T21:59:55	2004-04-30T21:54:43			
[s] Observation end time (MET)	199757659.184000	199759524.44362			
Observation end date	2004-05-01T00:13:15	2004-05-01T00:45:24			
Read mode	TIMED	TIMED			

2.3 Aspect



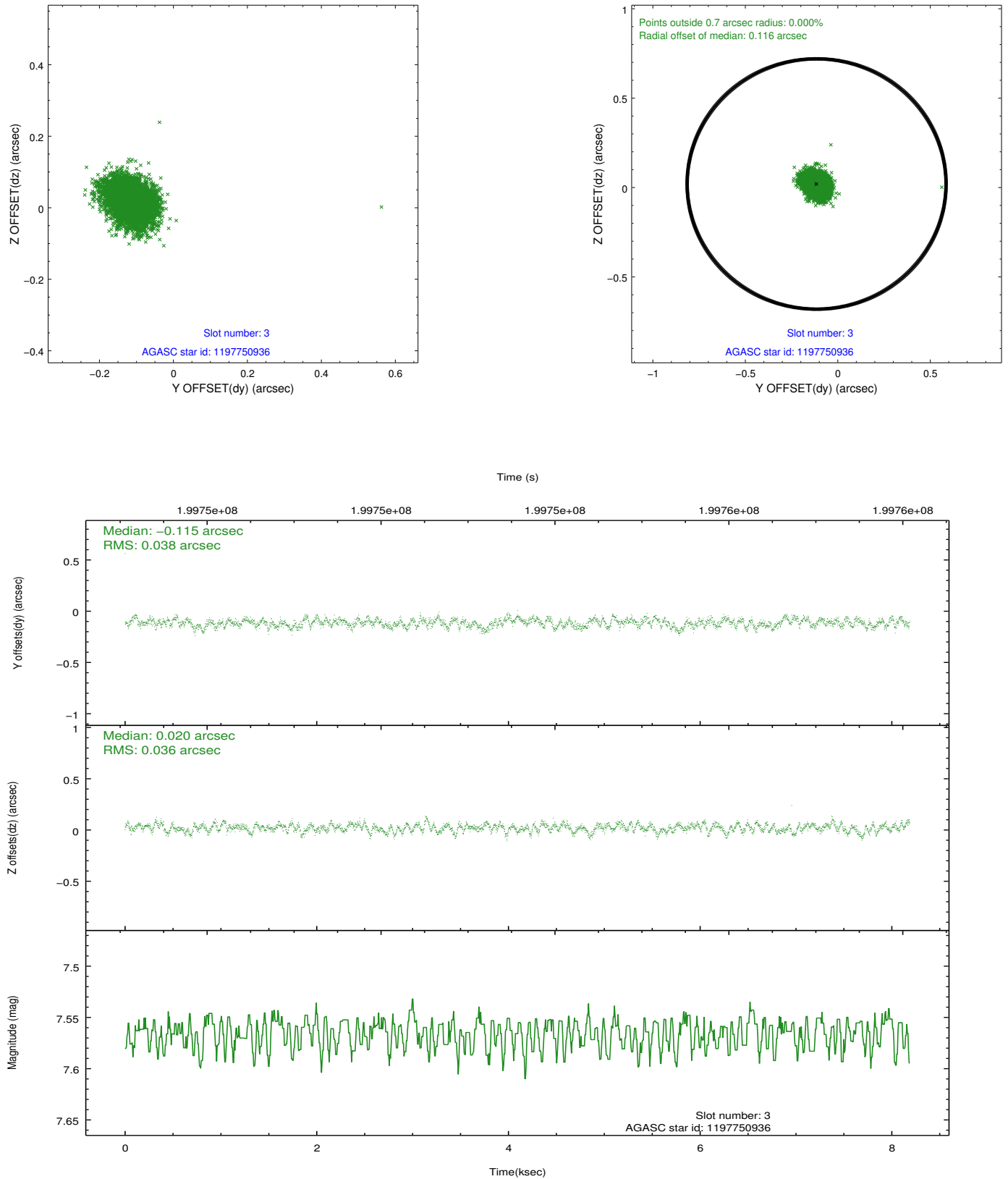


Slot Statistics

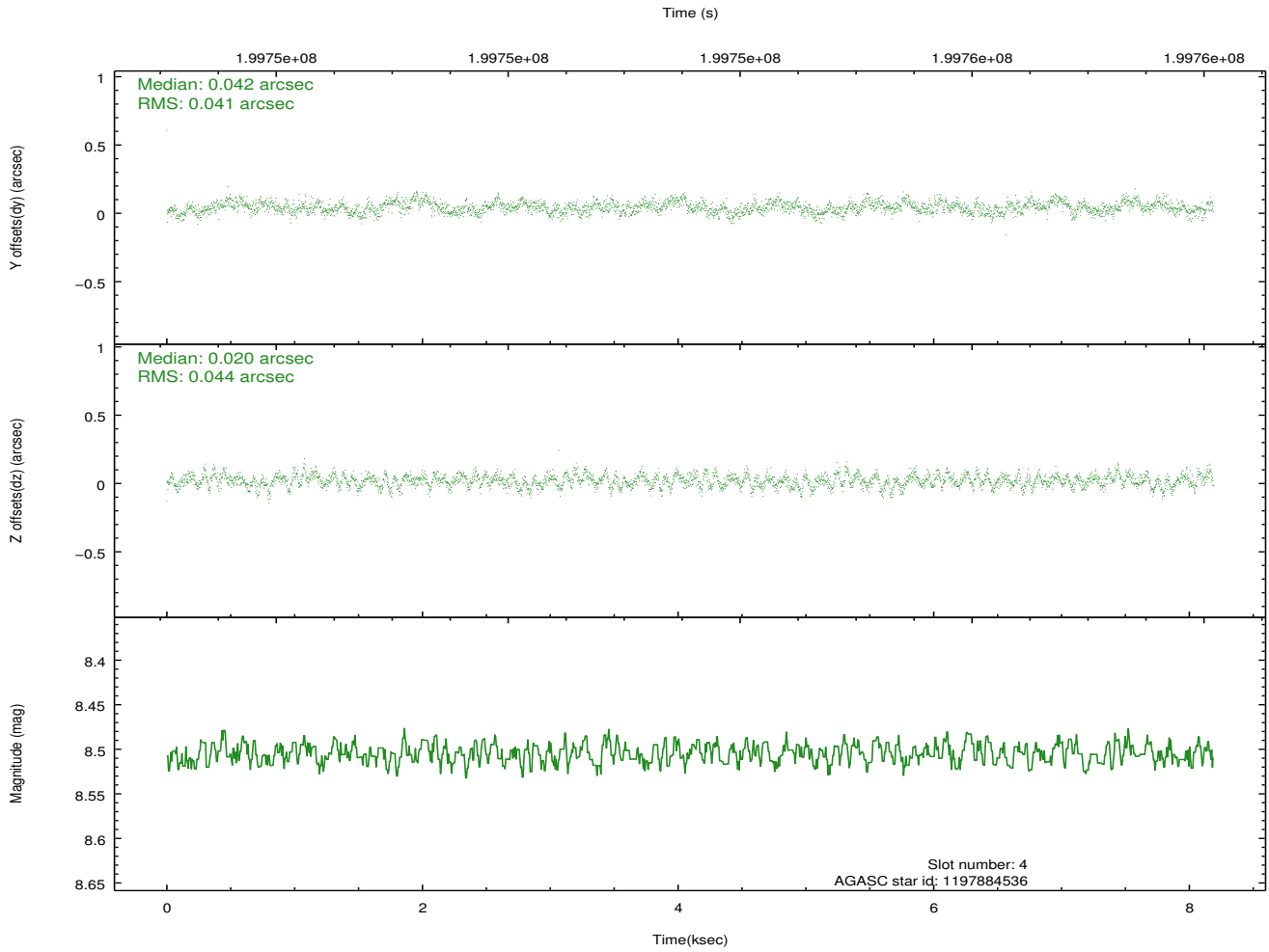
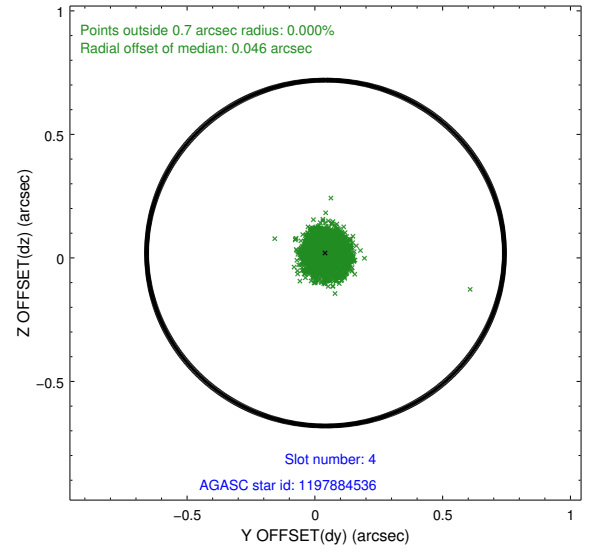
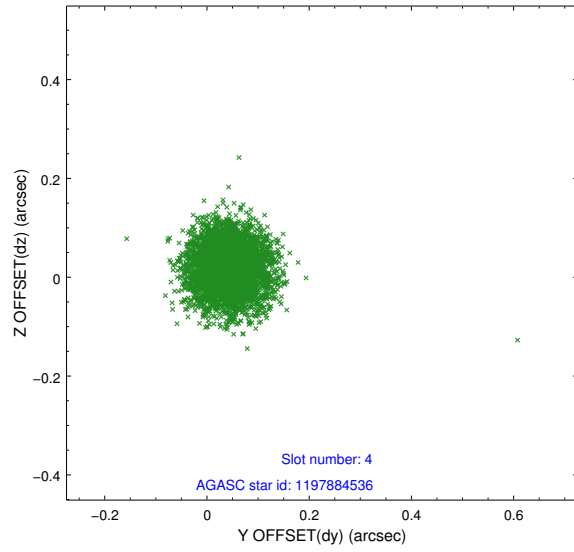
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1998	0.011	0.027	0.006	0.011	0.000000	0.000000	934.59	-833.39
1	FID	ACIS-I-5	7.23	1998	-0.165	0.033	0.006	0.010	0.000000	0.000000	-1813.32	1063.77
2	FID	ACIS-I-6	7.25	1998	0.063	0.010	0.007	0.011	0.000000	0.000000	399.45	1709.02
3	GUIDE	1197750936	7.57	3995	-0.115	0.020	0.055	0.087	15.387940	-71.549550	1126.53	-904.36
4	GUIDE	1197884536	8.51	3995	0.042	0.020	0.064	0.101	17.160729	-71.835289	-1114.42	-676.18
5	GUIDE	1197884712	8.31	3995	-0.023	-0.062	0.058	0.092	16.087398	-72.252690	-541.70	1153.57
6	GUIDE	1197885104	9.35	3993	0.110	-0.025	0.087	0.143	17.845067	-72.189368	-2268.38	258.78
7	GUIDE	1197885328	7.24	3993	-0.011	0.047	0.051	0.081	16.283090	-71.733943	-62.88	-664.46

2.4 Star Slots

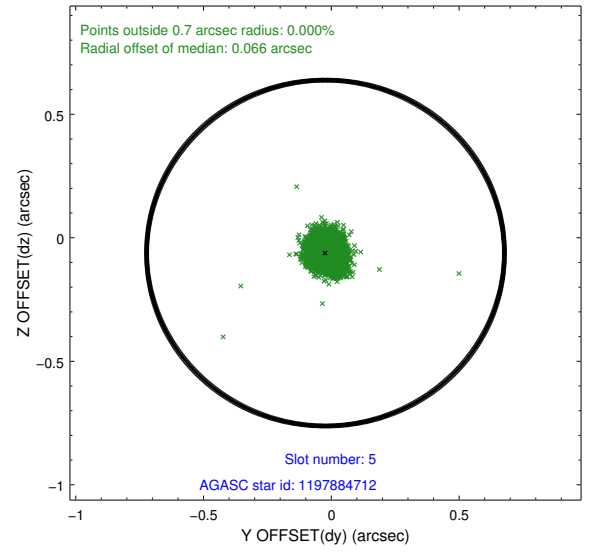
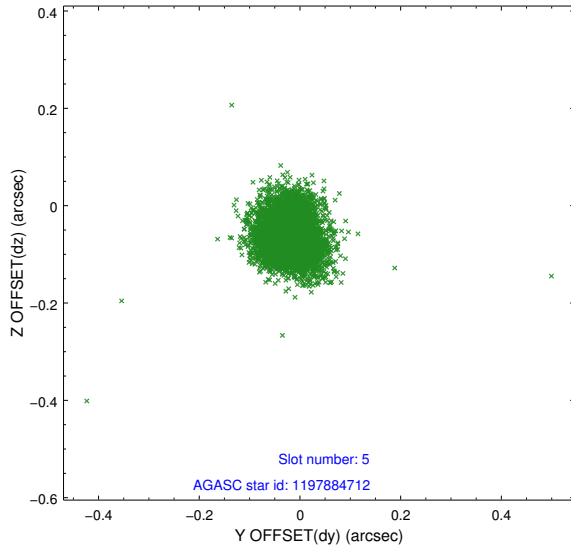
2.4.1 Slot 3



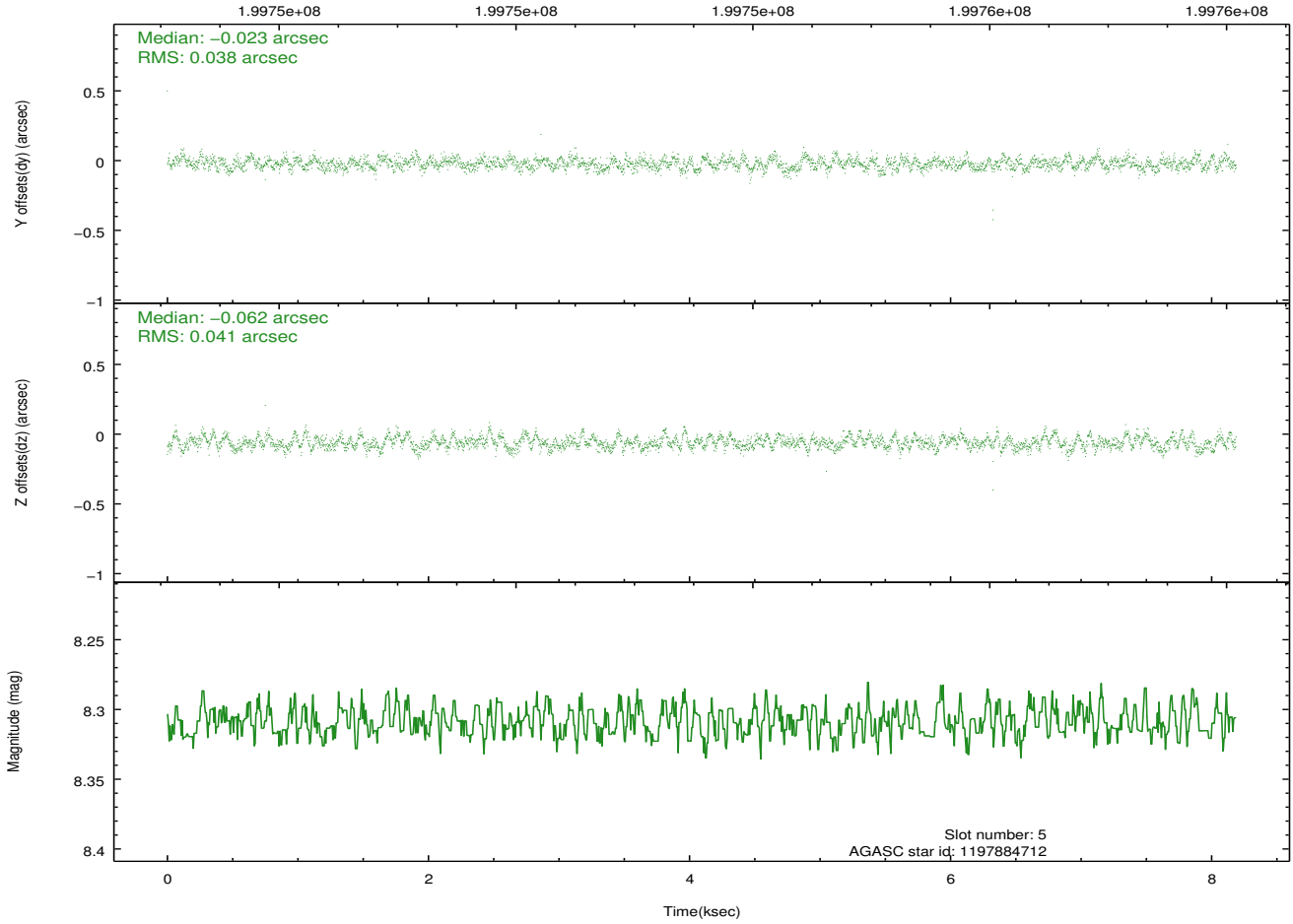
2.4.2 Slot 4



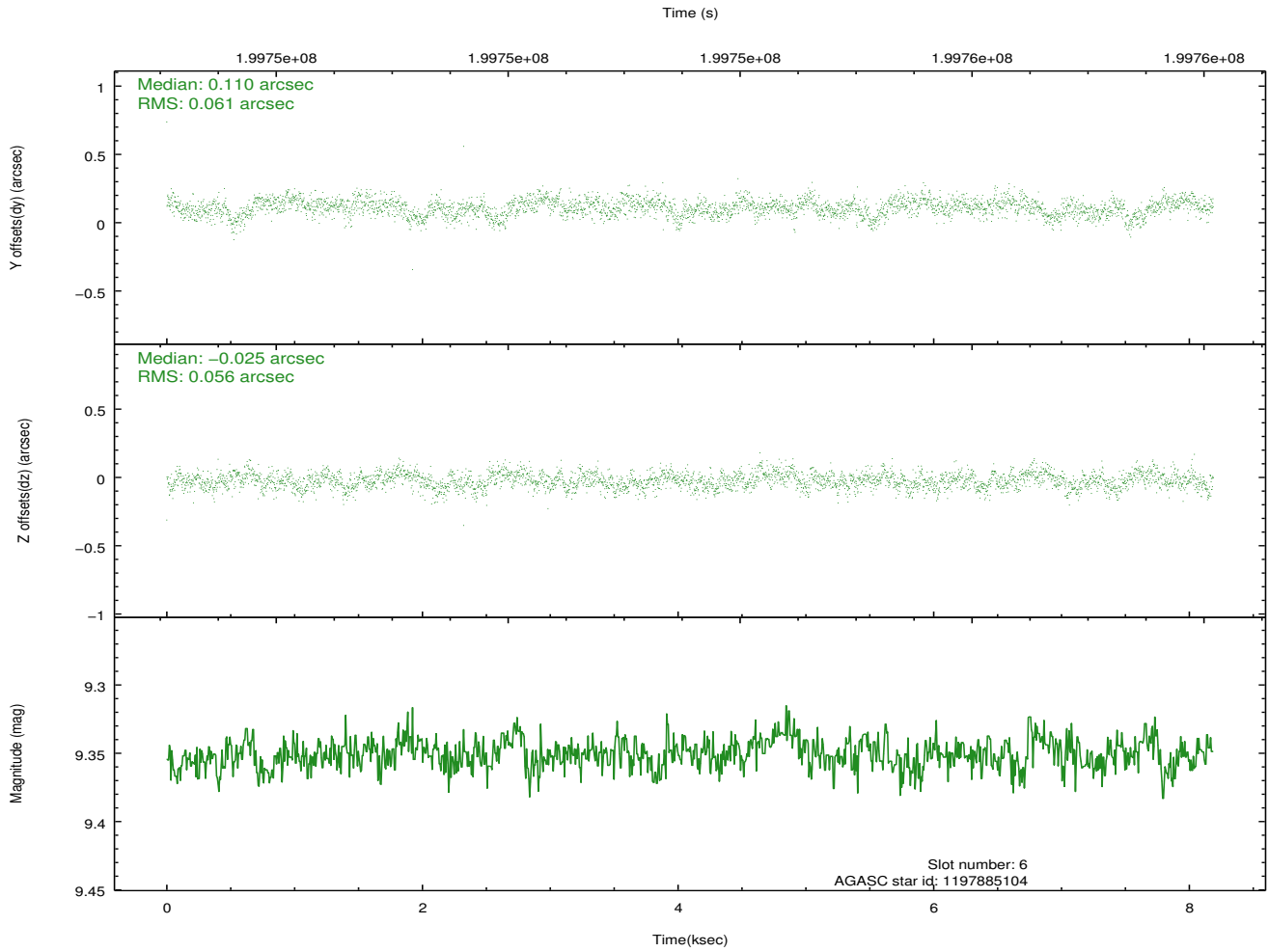
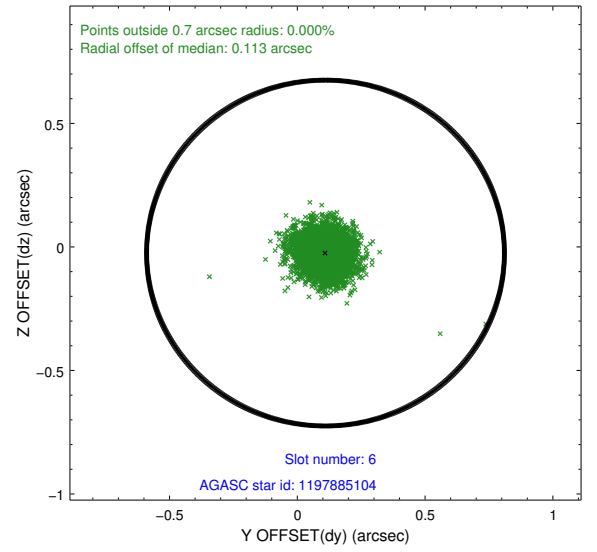
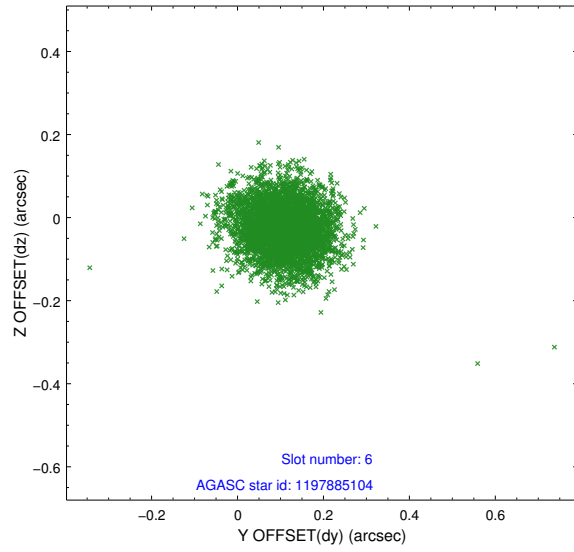
2.4.3 Slot 5



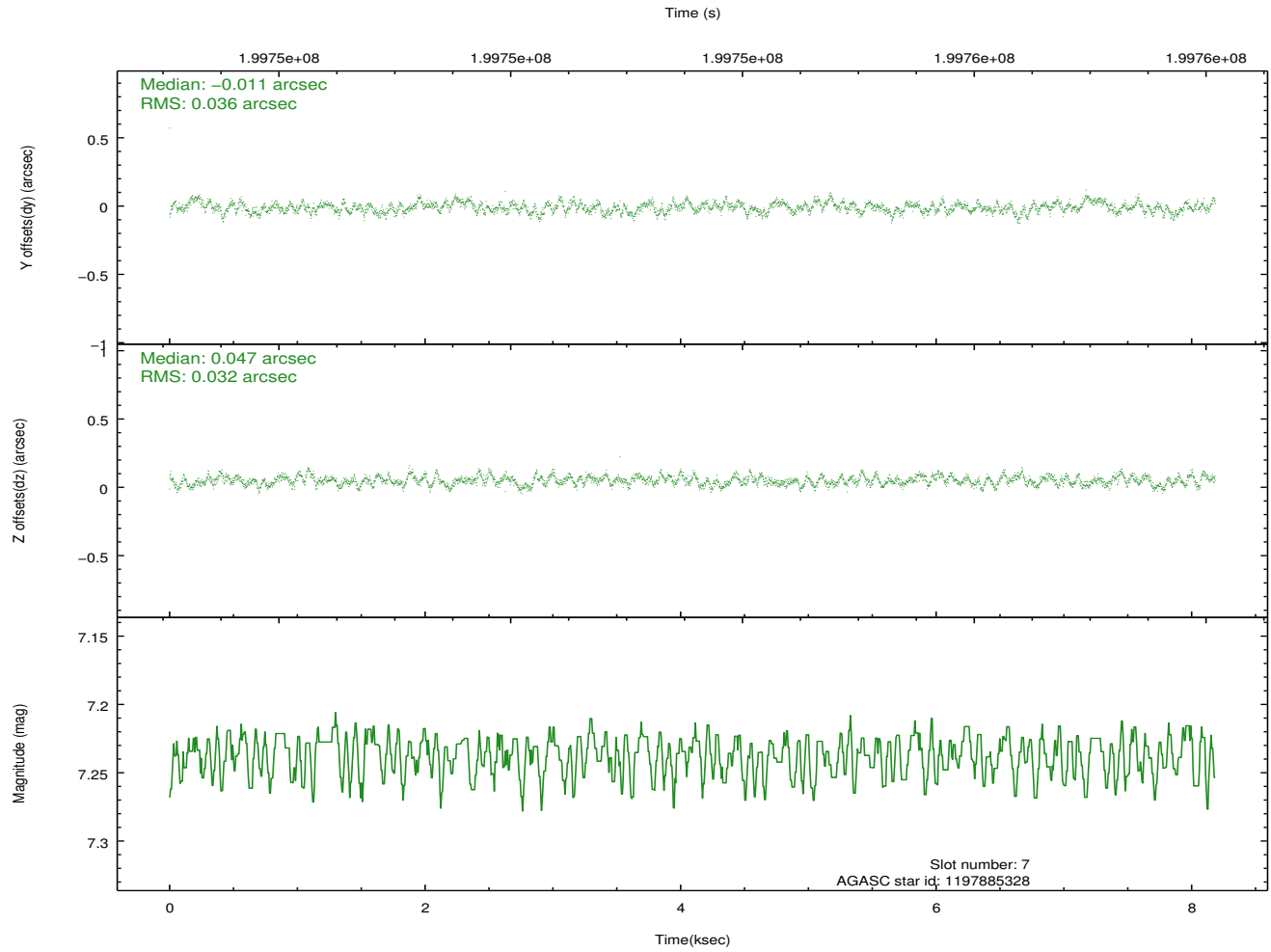
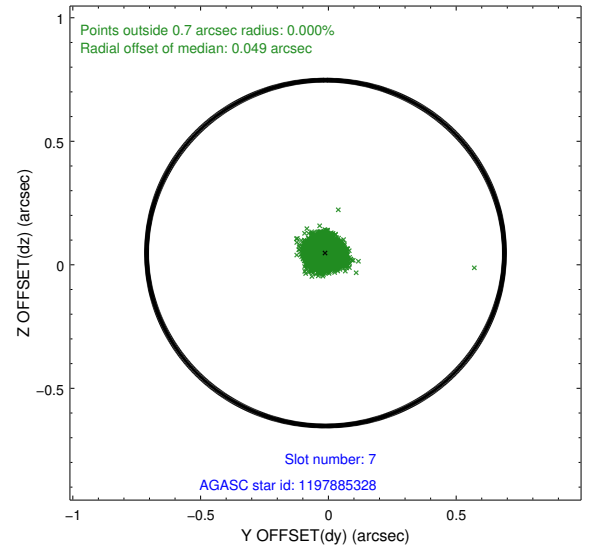
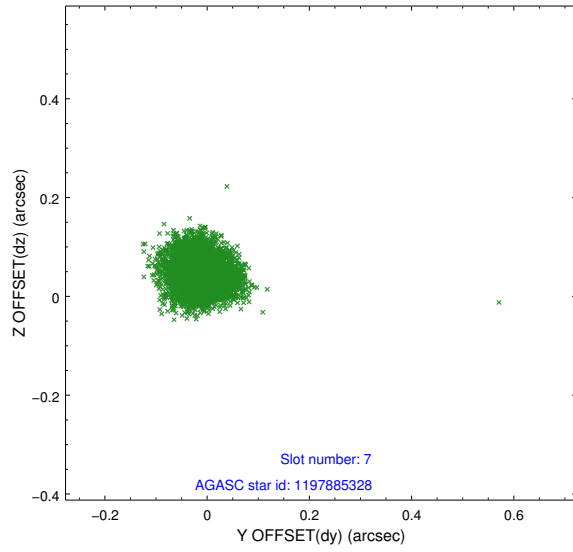
Time (s)



2.4.4 Slot 6

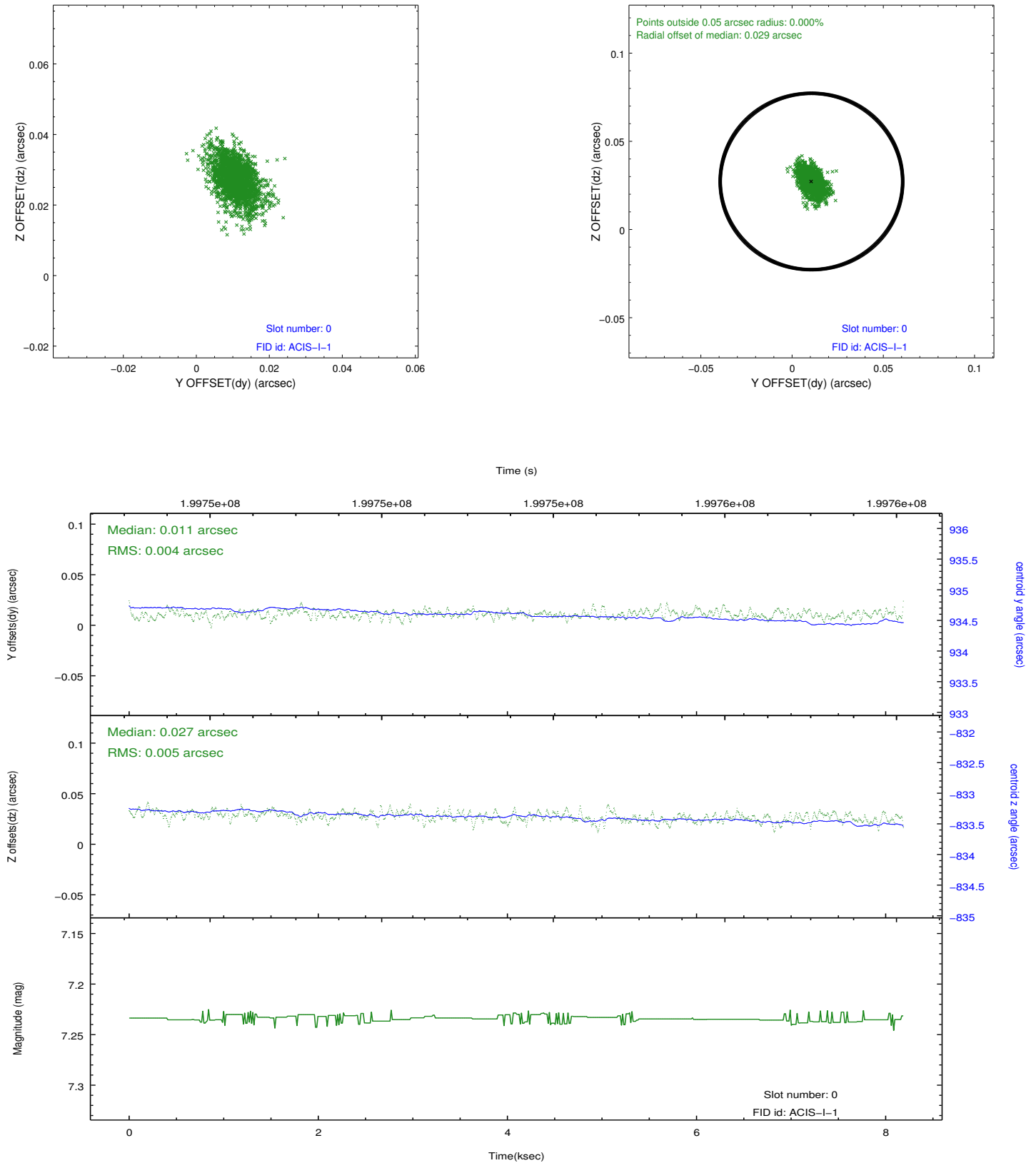


2.4.5 Slot 7

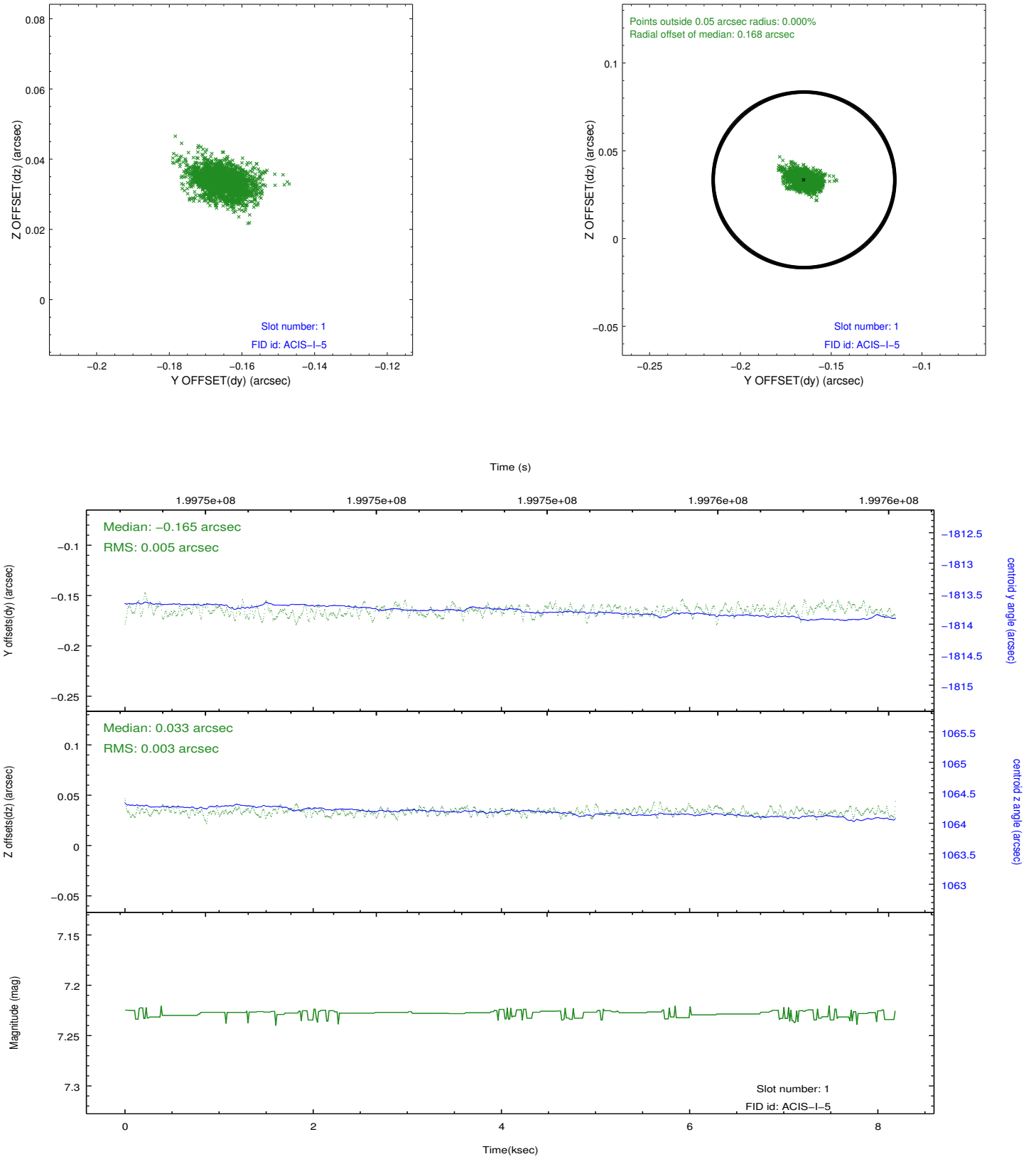


2.5 FID Slots

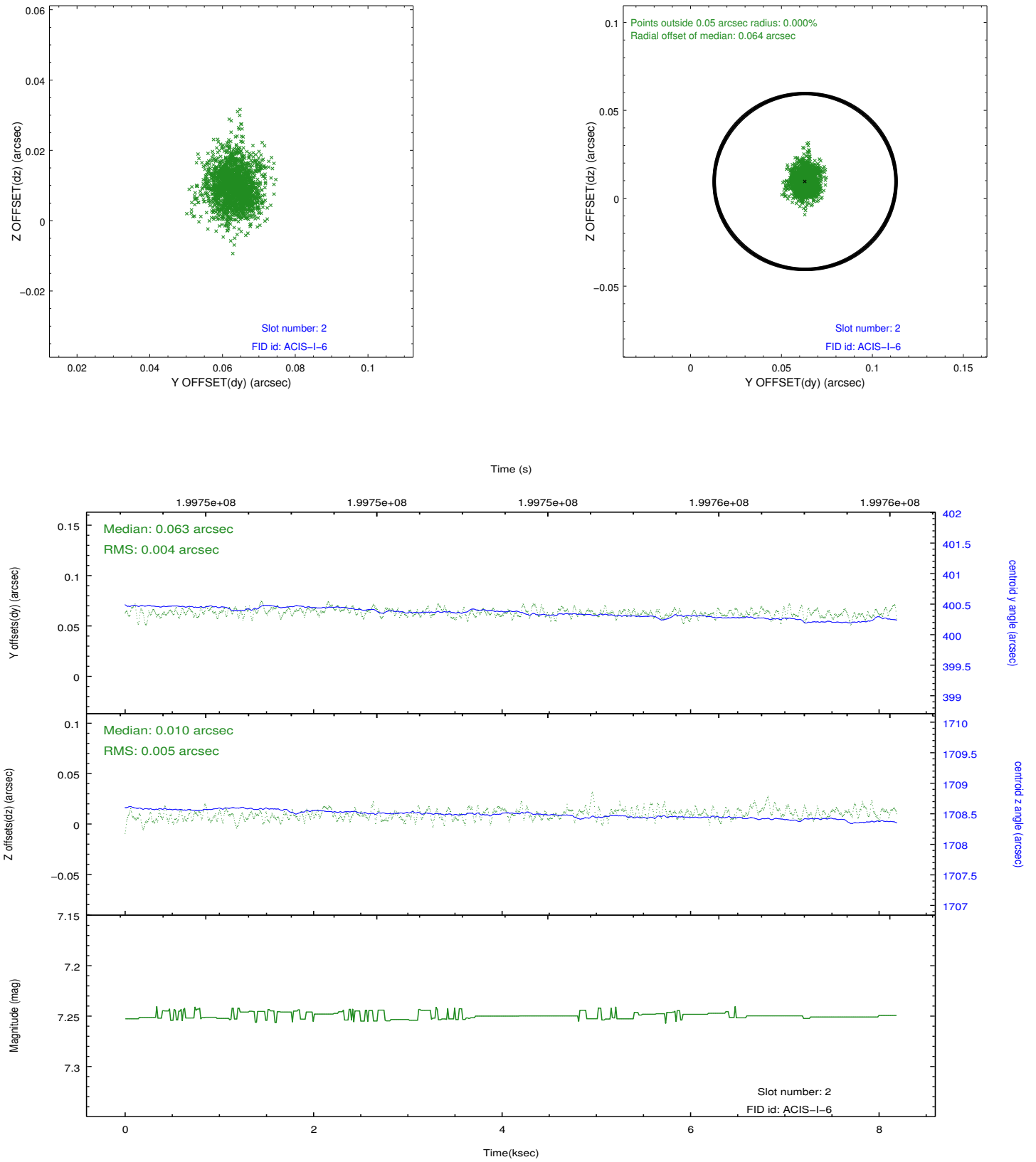
2.5.1 Slot 0



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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.759

A.2 Comments

Window constraint not satisfied.