

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8916 - L2 Version 2  
Chandra X-Ray Center

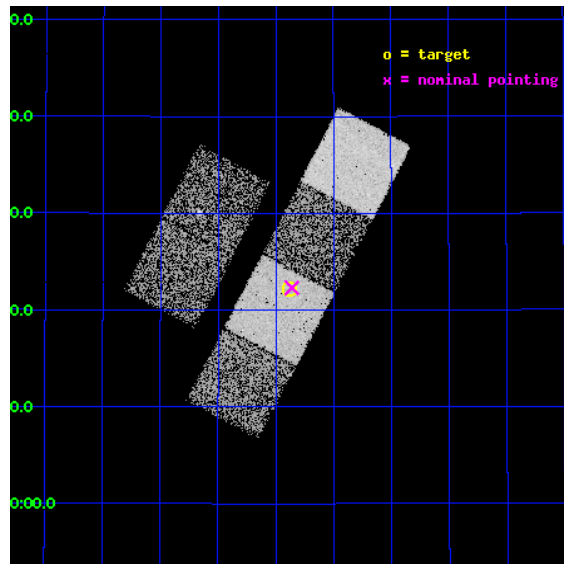
L2 Processing Date : May 7 2012

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# 1 Front

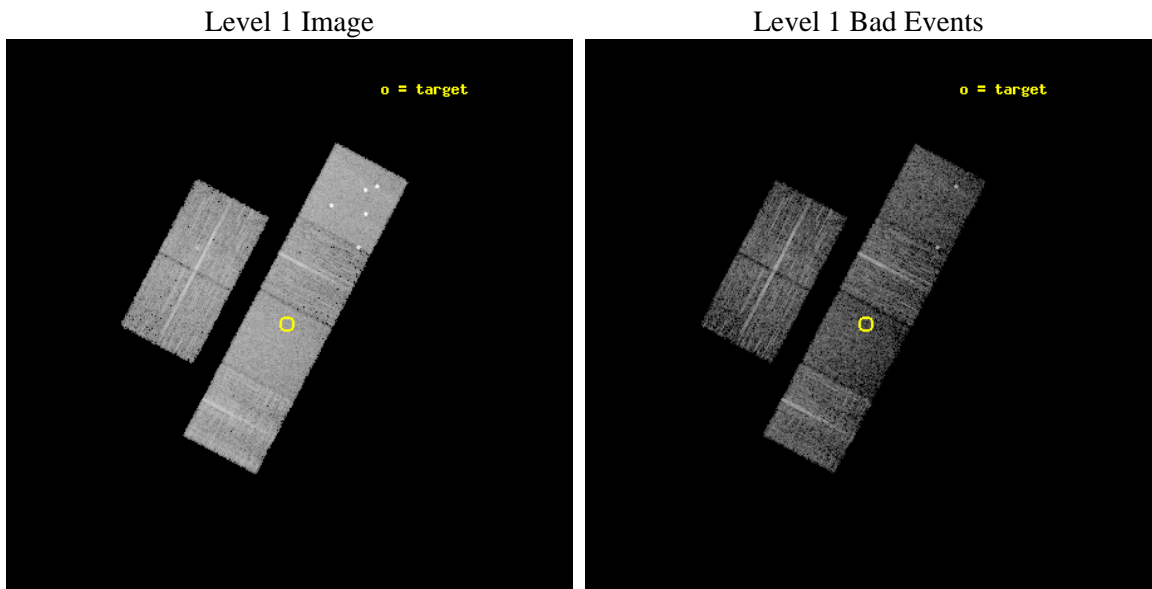
seq_num	200497	Sequence number
obs_id	8916	Observation id
title	The Coolest X-ray Emitting White Dwarfs?	Proposal title
observer	Dr Marcel Agueros	Principal investigator
object	SDSS J0931+3622	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	142.845417	Observer's specified target RA [deg]
dec_targ	36.369278	Observer's specified target Dec [deg]
ra_nom	142.84012054981	Nominal RA [deg]
dec_nom	36.371752145246	Nominal Dec [deg]
roll_nom	117.7891796872	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5042.0518957376	Sum of GTIs [s]
livetime	4978.2063986747	Livetime [s]
ontime2	5042.0929357409	Sum of GTIs [s]
ontime3	5041.9287757277	Sum of GTIs [s]
ontime5	5042.0108557343	Sum of GTIs [s]
ontime6	5041.969815731	Sum of GTIs [s]
ontime7	5042.0518957376	Sum of GTIs [s]
ontime8	5041.8877357244	Sum of GTIs [s]
l2events	59395	Number of level 2 events



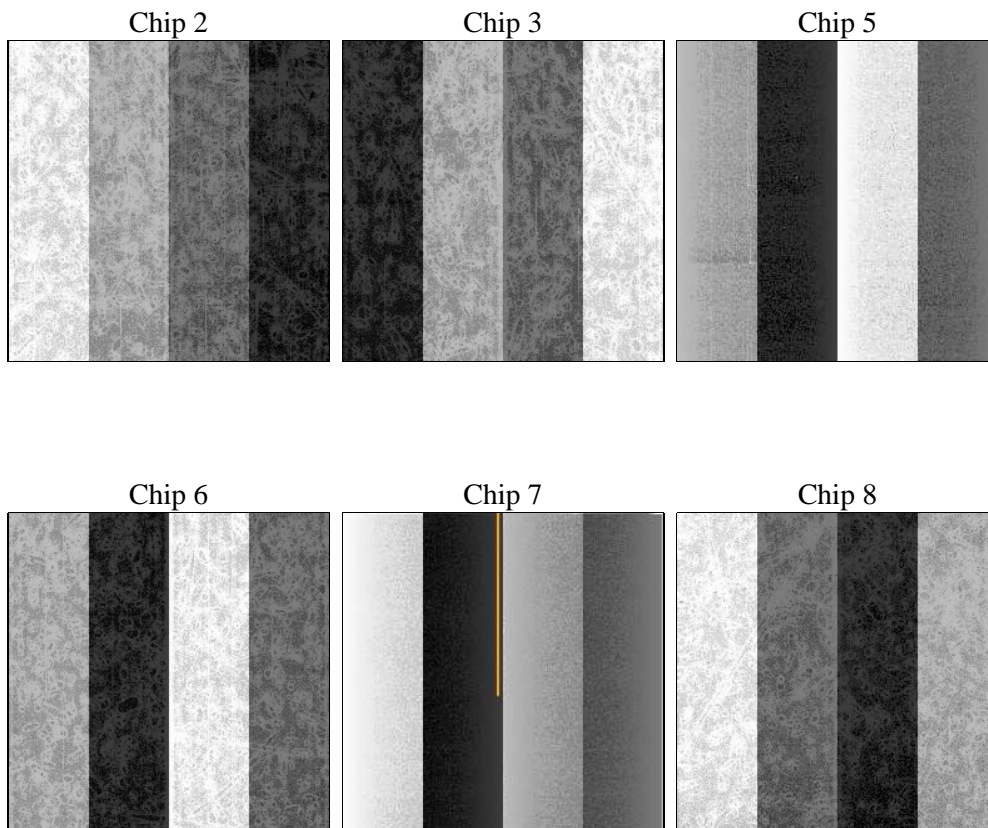
## 2 OBI

### 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	5042.0518957376	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	5042.0929357409	Sum of GTIs [s]
date	2012-05-08T02:09:26	Date and time of file creation	ontime3	5041.9287757277	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5042.0108557343	Sum of GTIs [s]
			ontime6	5041.969815731	Sum of GTIs [s]
			ontime7	5042.0518957376	Sum of GTIs [s]
			ontime8	5041.8877357244	Sum of GTIs [s]
			l1events	273649	Number of level 1 events

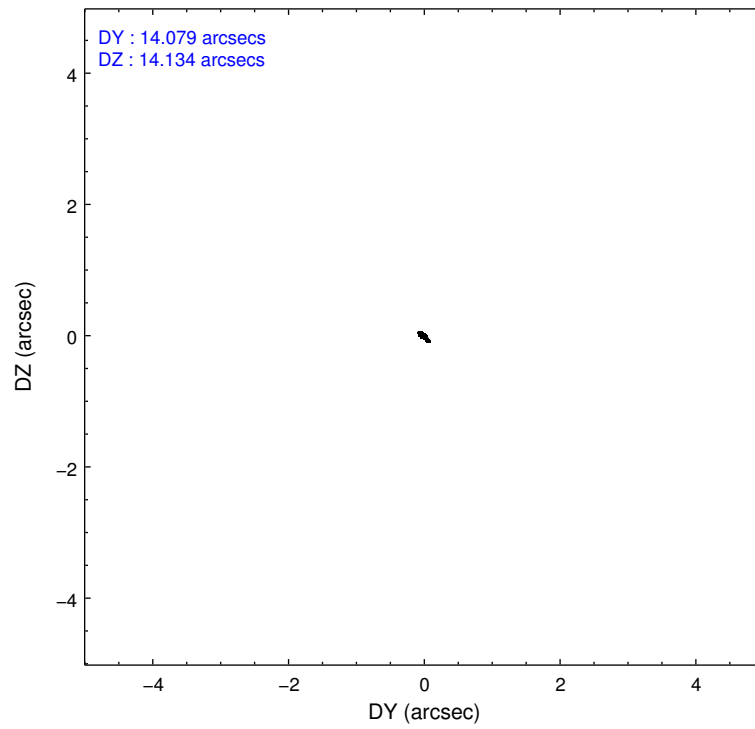
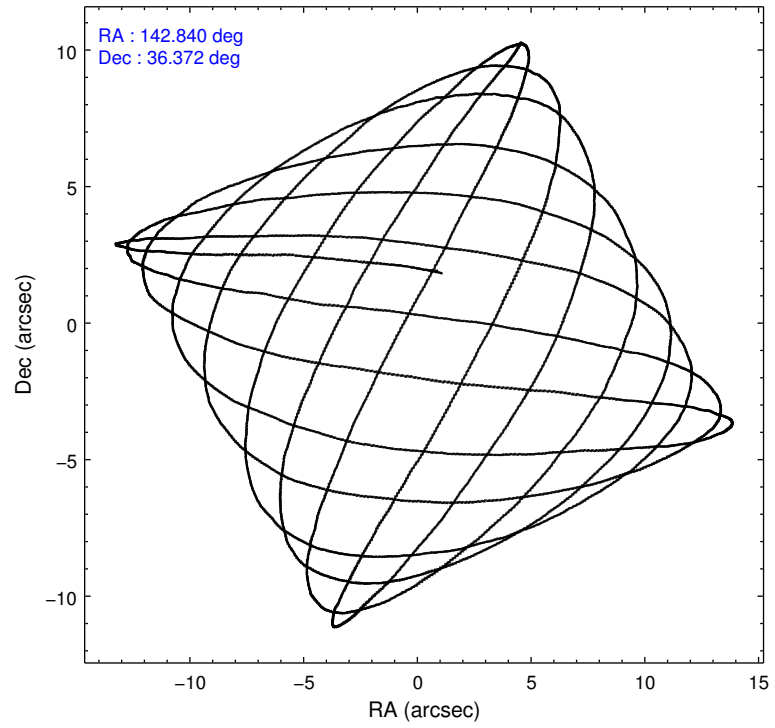
### 2.1.4 Events

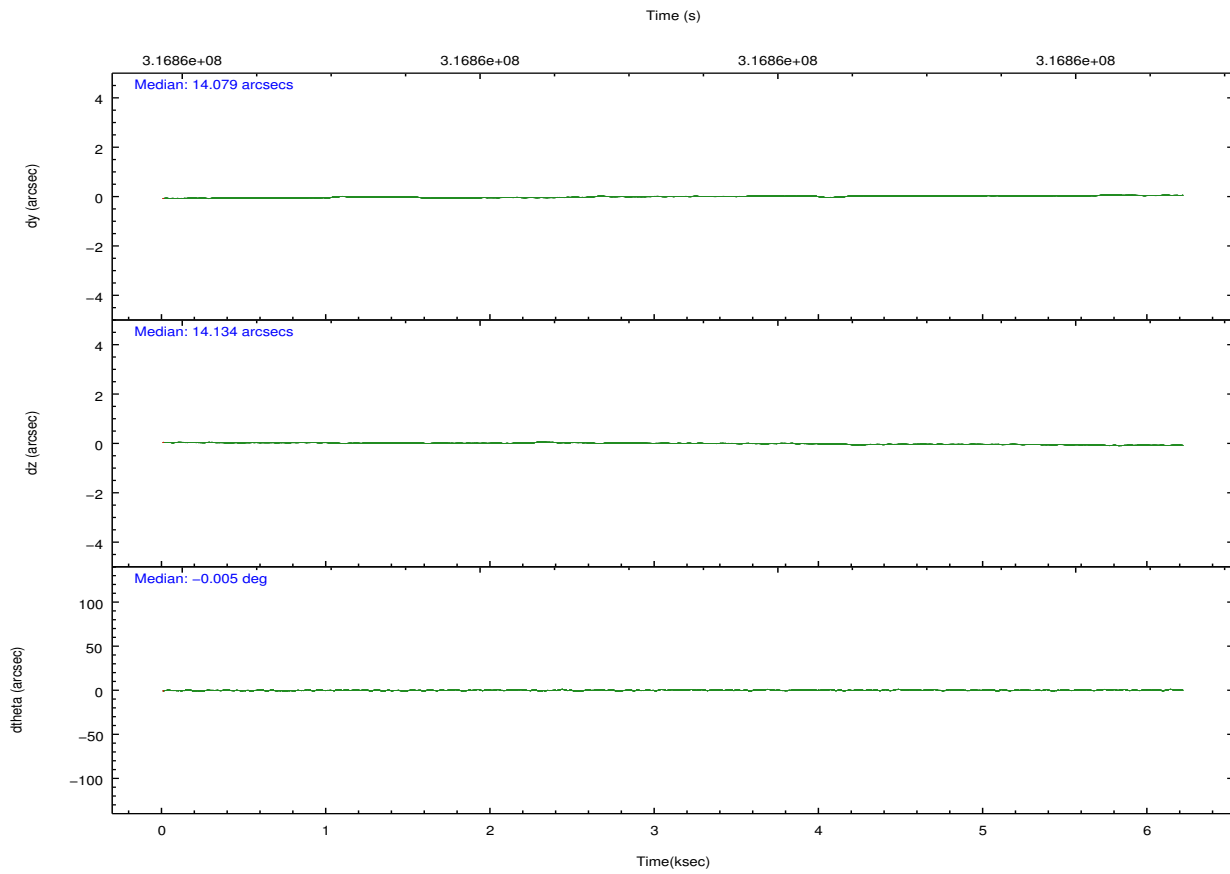
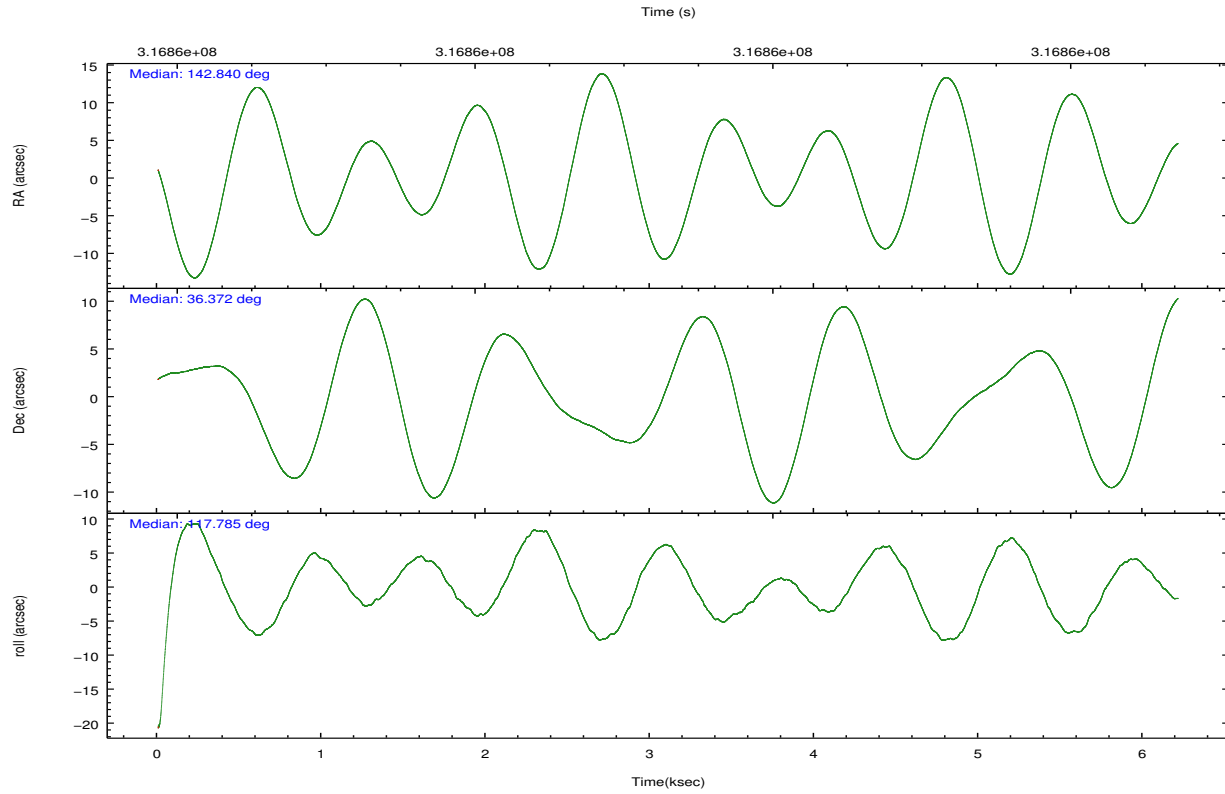
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	41644	37906	60759	39339	44123	49878	grade 0 events	1542	1239	7002	1391	1956	3651
rejected events	37629	34208	28040	35350	24098	37738		3%	3%	11%	3%	4%	7%
rejected %	90%	90%	46%	89%	54%	75%	grade 1 events	25	24	368	17	44	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	941	817	8956	871	4049	2645
								2%	2%	14%	2%	9%	5%
							grade 3 events	383	443	1202	437	1792	1367
								0%	1%	1%	1%	4%	2%
							grade 4 events	425	421	1218	442	1777	1311
								1%	1%	2%	1%	4%	2%
							grade 5 events	1336	1491	4337	1590	4589	2318
								3%	3%	7%	4%	10%	4%
							grade 6 events	727	778	14362	849	10462	3171
								1%	2%	23%	2%	23%	6%
							grade 7 events	36265	32693	23314	33742	19454	35376
								87%	86%	38%	85%	44%	70%

## 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	142.869194	142.8401205498065	CCD I2 on	O1	Y
[deg] Pointing Dec	36.357480	36.37175214524633	CCD I3 on	O2	Y
[deg] Pointing Roll	117.615347	117.7891796871995	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)	316857412.184000	316855892.72947	CCD S5 on	N	N
Observation start date	2008-01-16T07:55:47	2008-01-16T07:31:32	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	316862412.184000	316863217.89232	On-chip summing requested	N	N
Observation end date	2008-01-16T09:19:07	2008-01-16T09:33:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



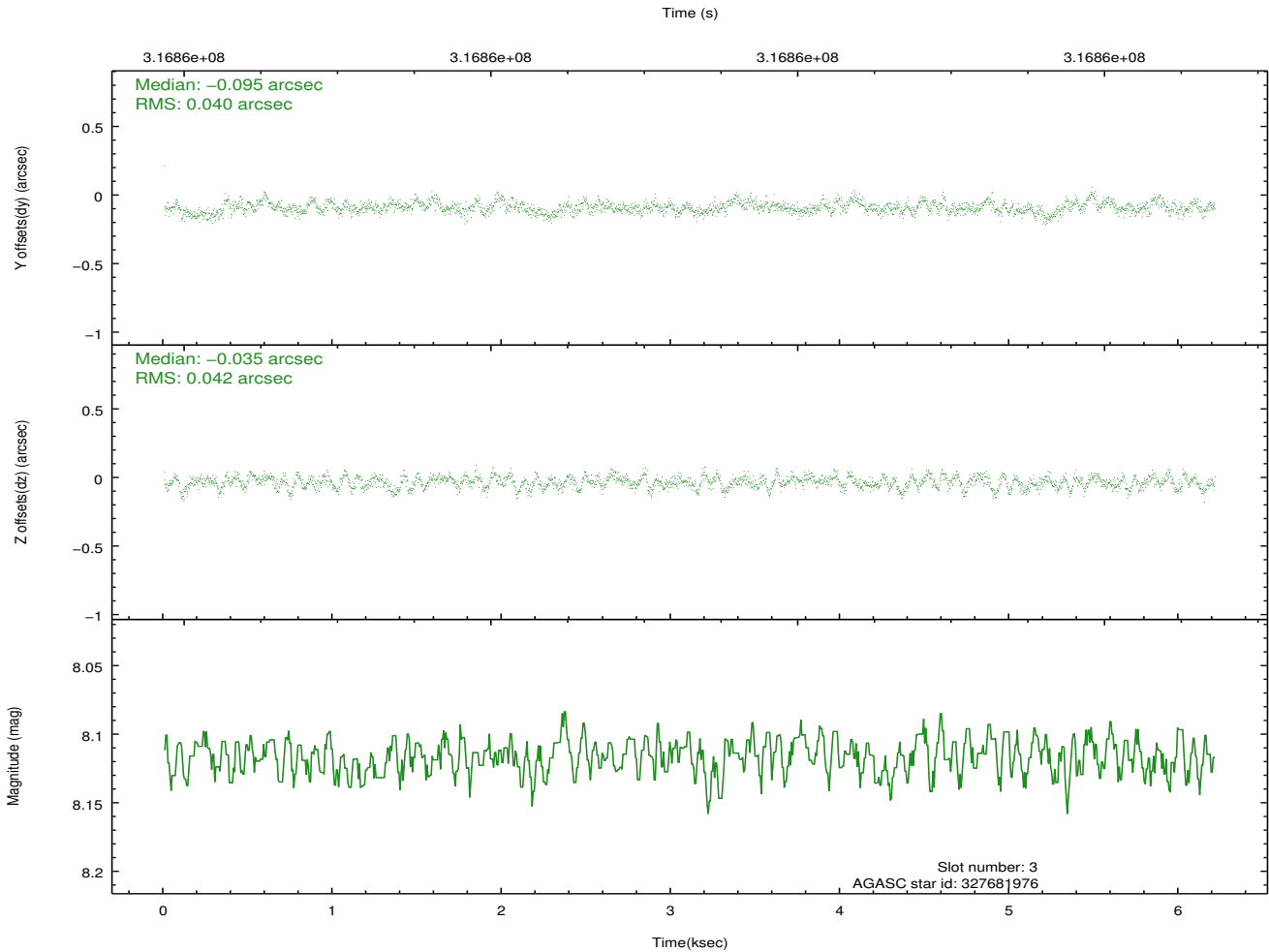
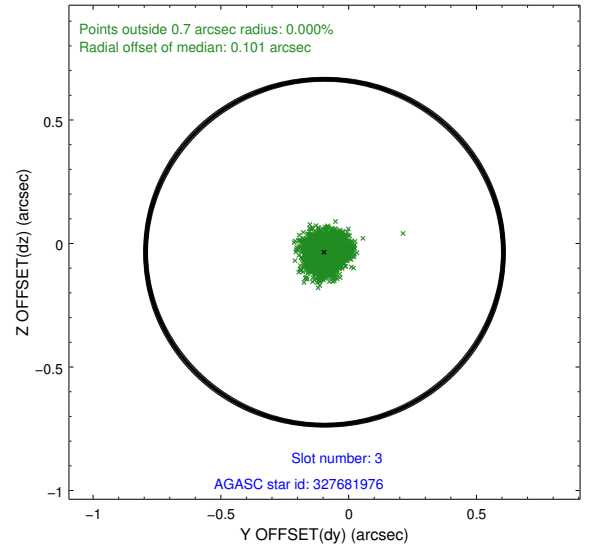
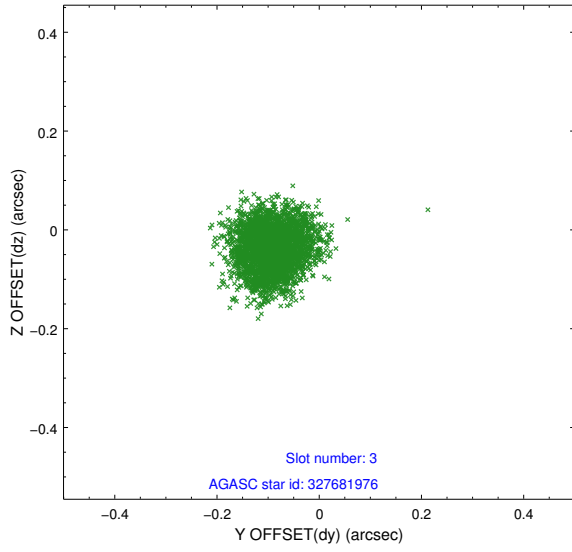


### Slot Statistics

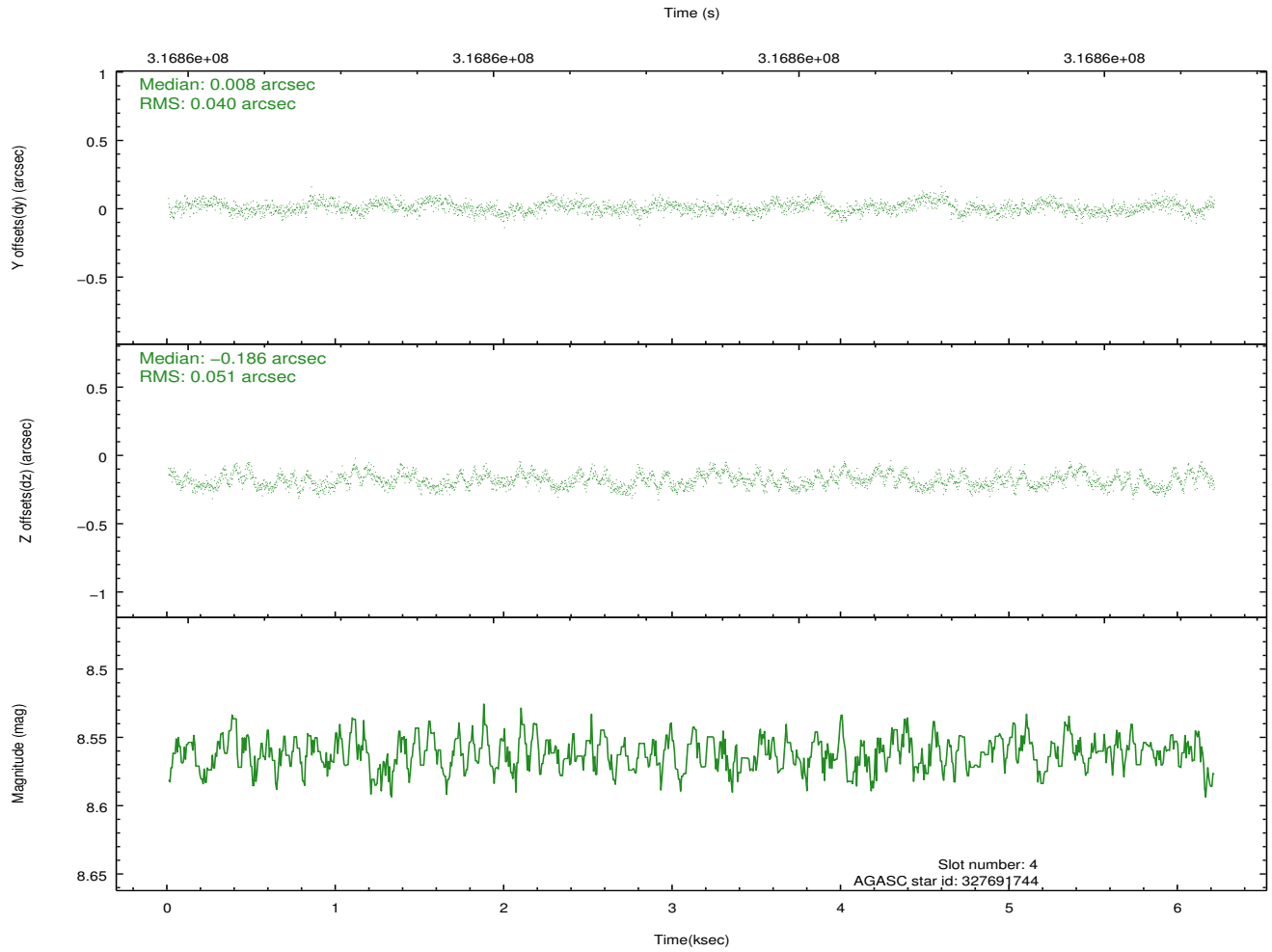
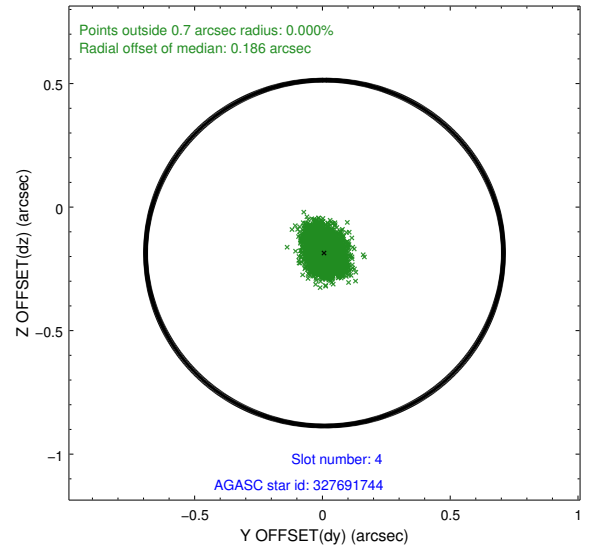
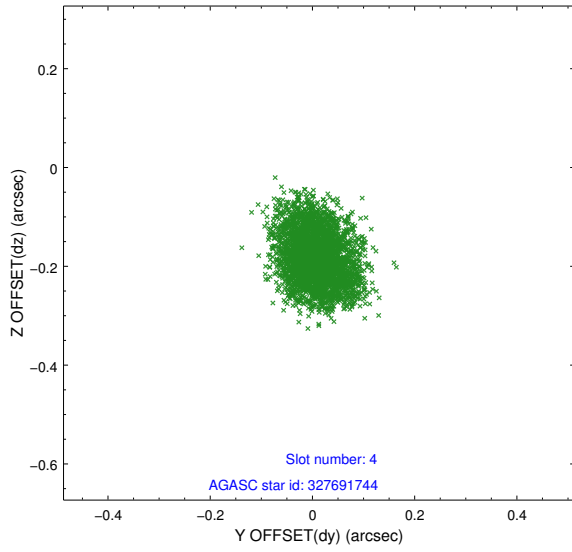
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1515	0.042	-0.011	0.007	0.012	0.000000	0.000000	929.05	-1731.07
1	FID	ACIS-S-4	7.19	1515	0.141	-0.008	0.007	0.011	0.000000	0.000000	2147.08	172.11
2	FID	ACIS-S-5	7.22	1515	-0.209	0.031	0.006	0.012	0.000000	0.000000	-1818.85	166.82
3	GUIDE	327681976	8.12	3028	-0.095	-0.035	0.062	0.097	143.311340	36.646801	332.17	-1614.61
4	GUIDE	327691744	8.56	3030	0.008	-0.186	0.071	0.110	142.715850	36.197987	-301.67	660.22
5	GUIDE	327691984	7.95	3030	0.029	-0.060	0.066	0.108	143.505053	36.422117	-642.04	-1742.43
6	GUIDE	327682968	8.95	3025	-0.084	0.054	0.083	0.136	142.984480	37.159845	2406.37	-1632.49
7	GUIDE	327689368	8.89	3024	0.136	0.232	0.091	0.141	143.548873	36.354164	-916.63	-1744.12

## 2.4 Star Slots

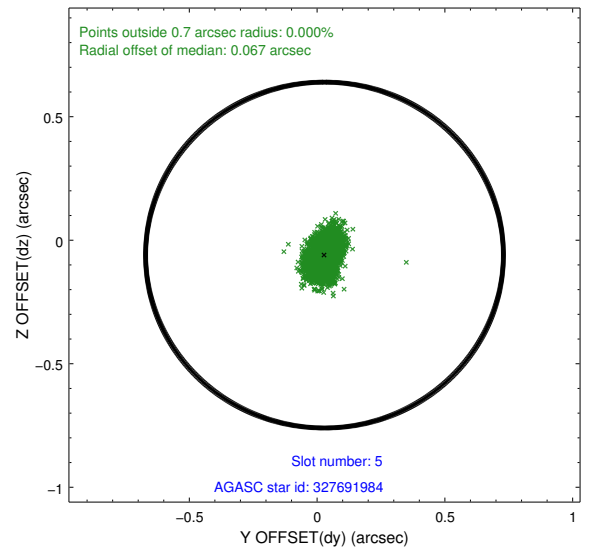
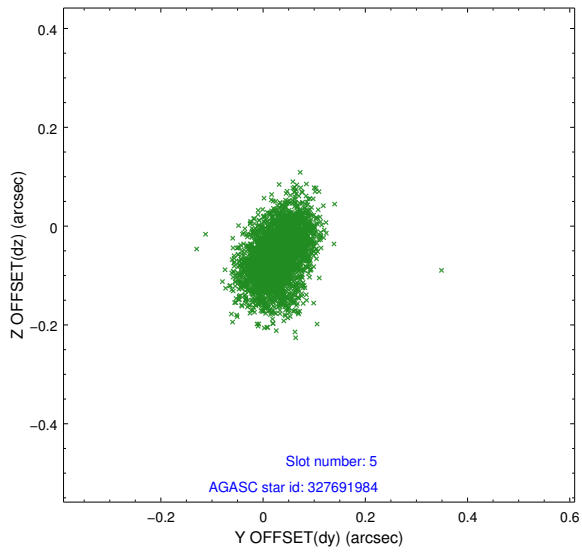
### 2.4.1 Slot 3



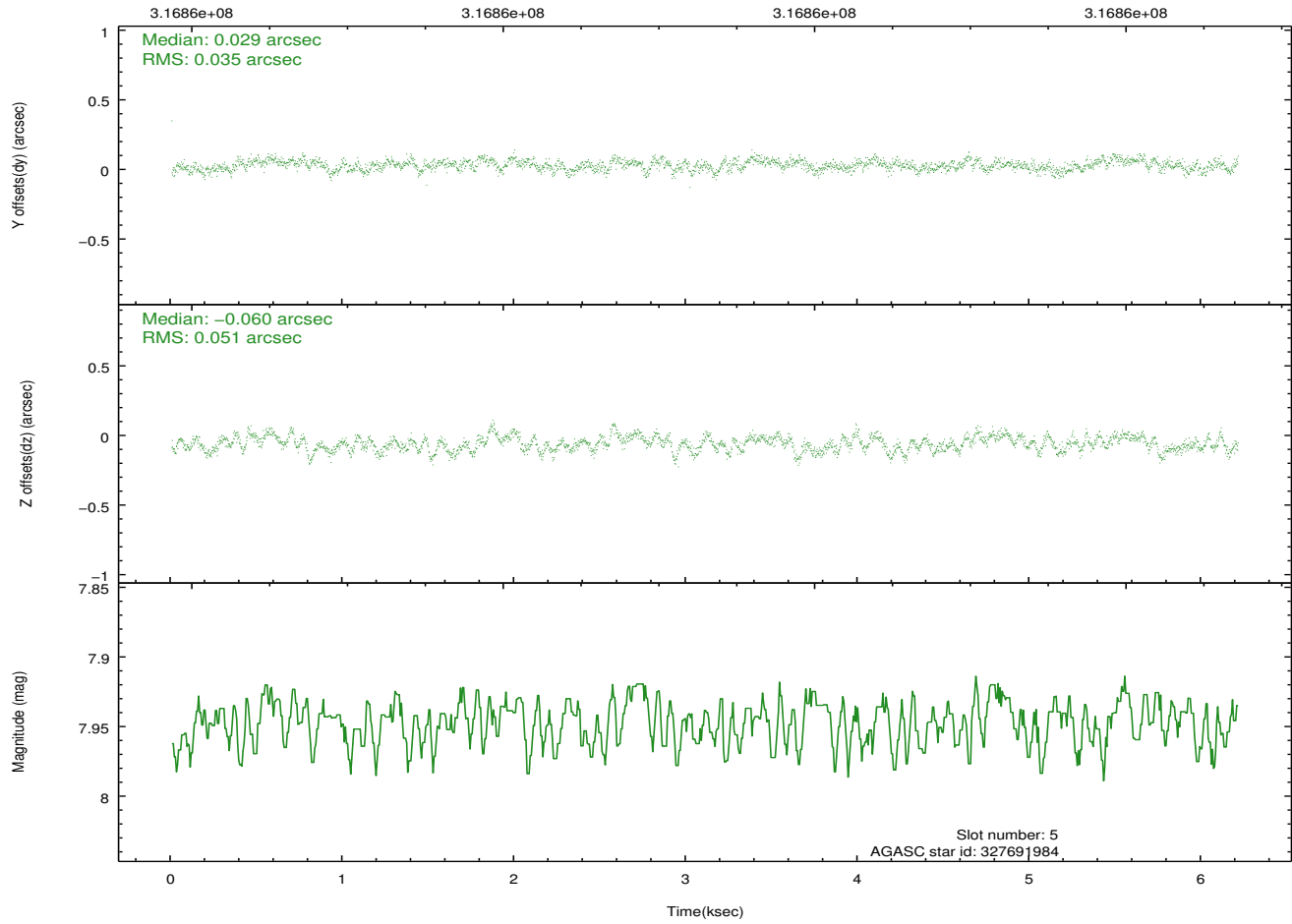
## 2.4.2 Slot 4



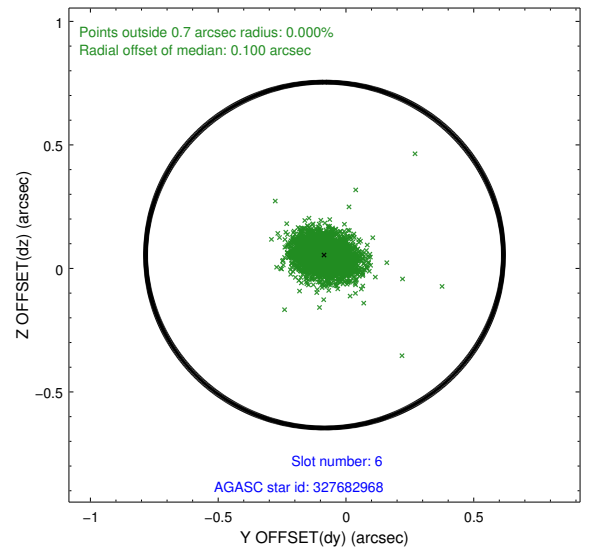
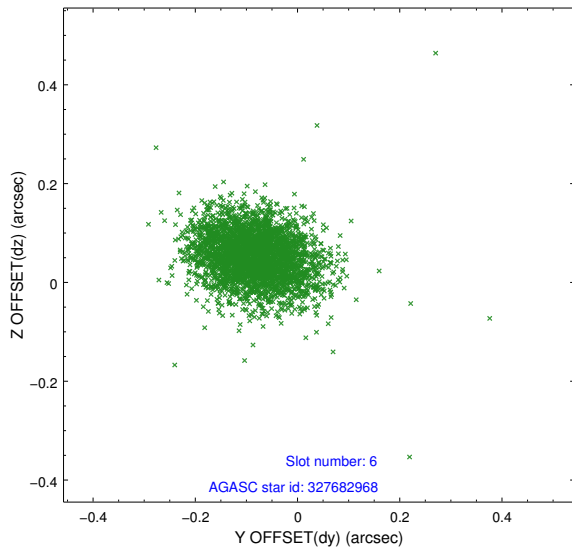
### 2.4.3 Slot 5



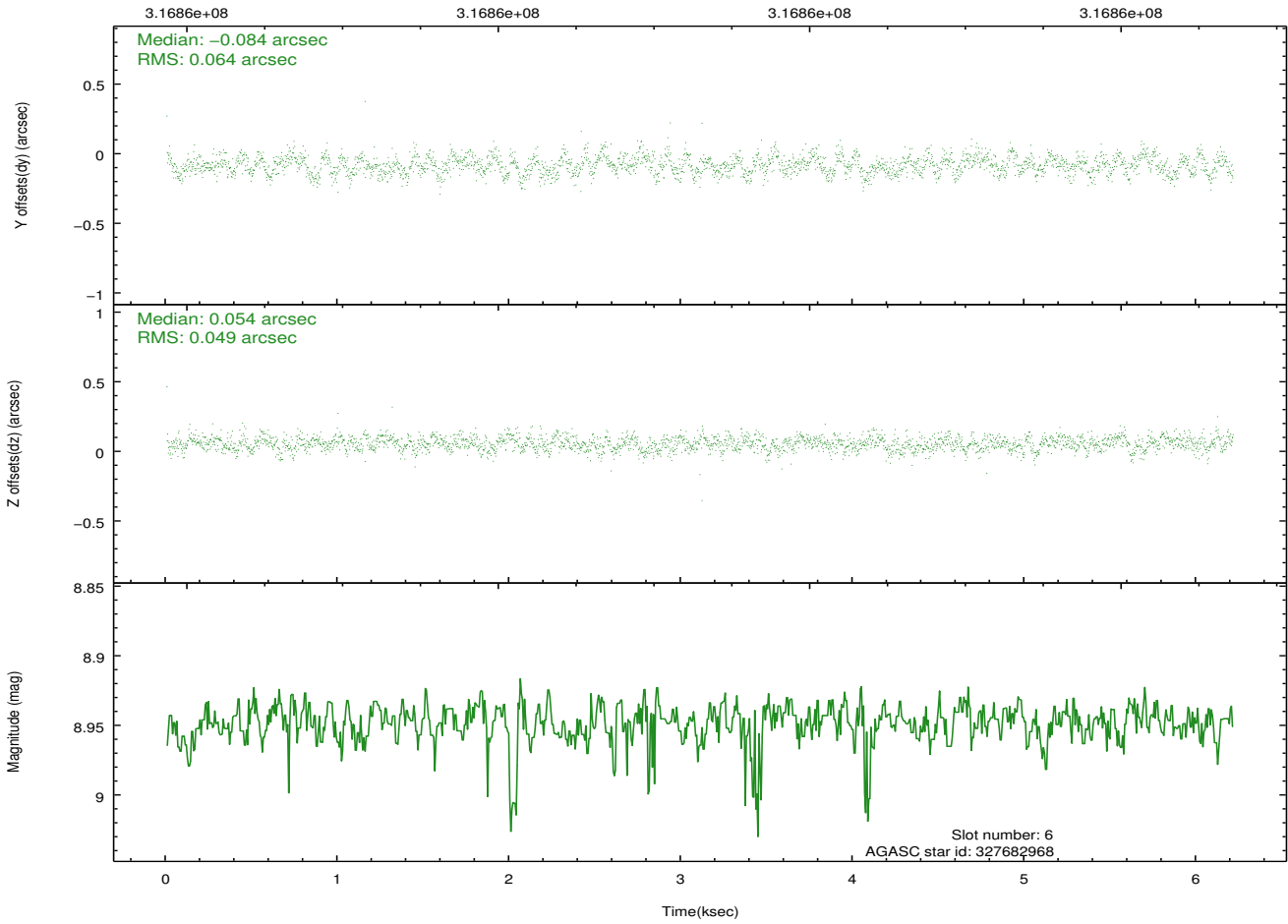
Time (s)



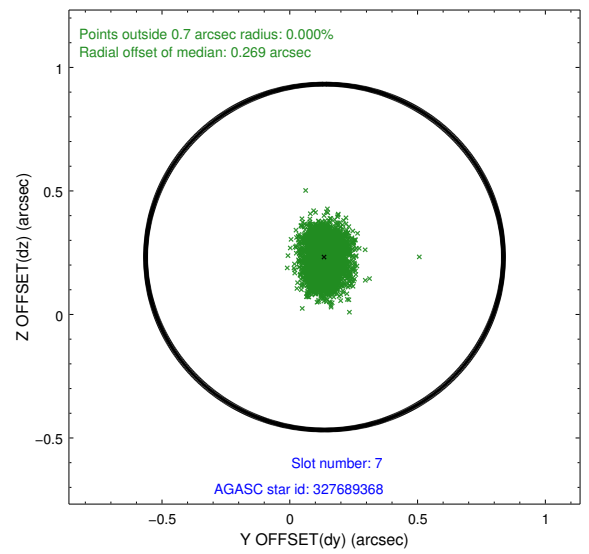
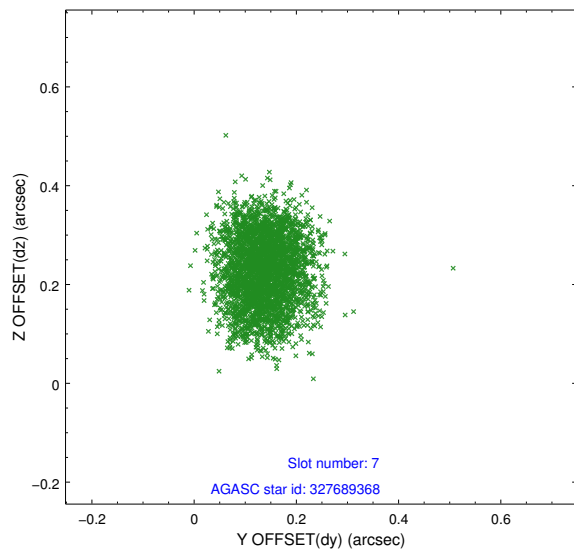
### 2.4.4 Slot 6



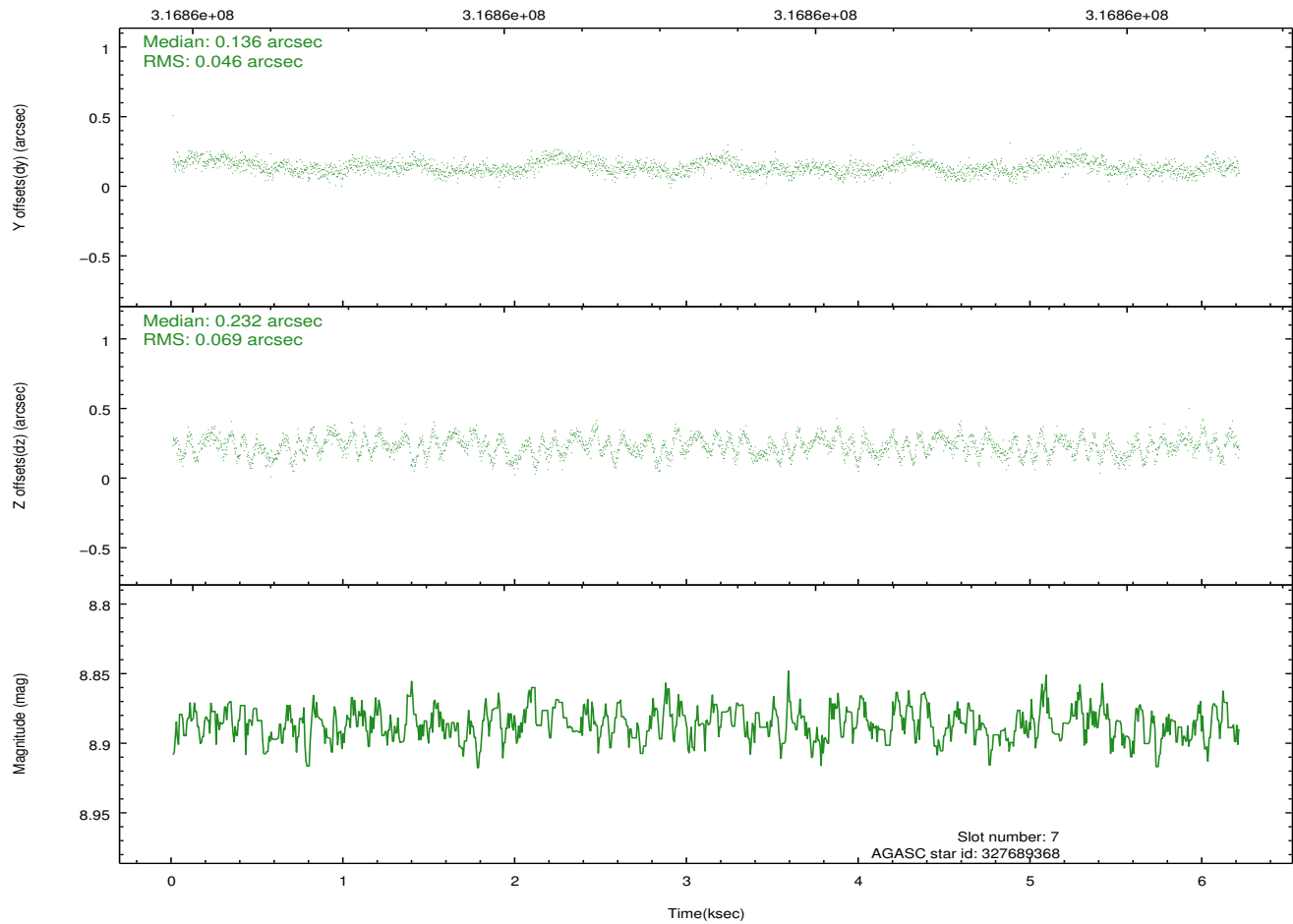
Time (s)



## 2.4.5 Slot 7

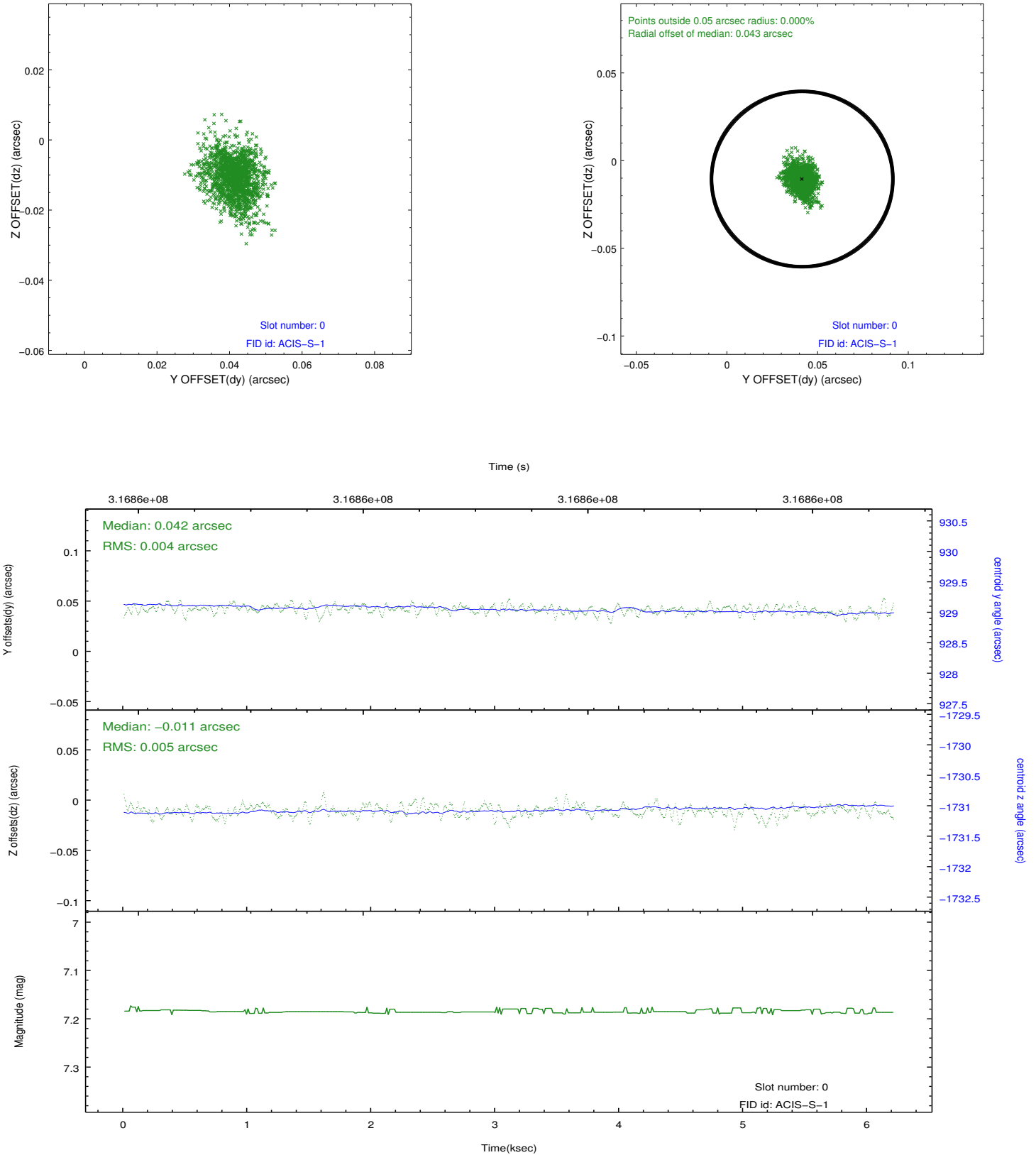


Time (s)

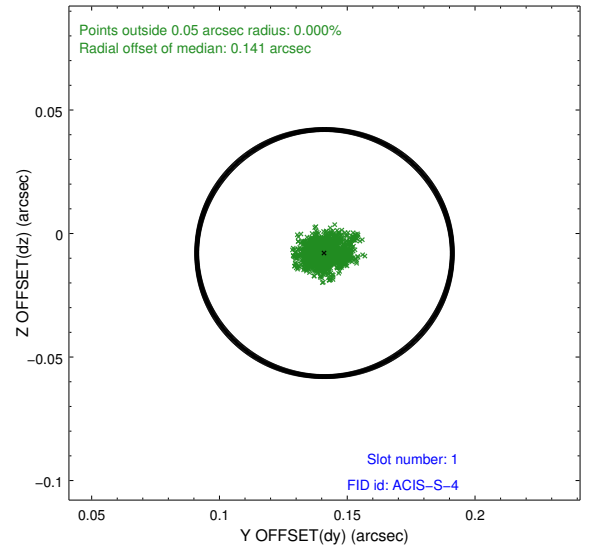
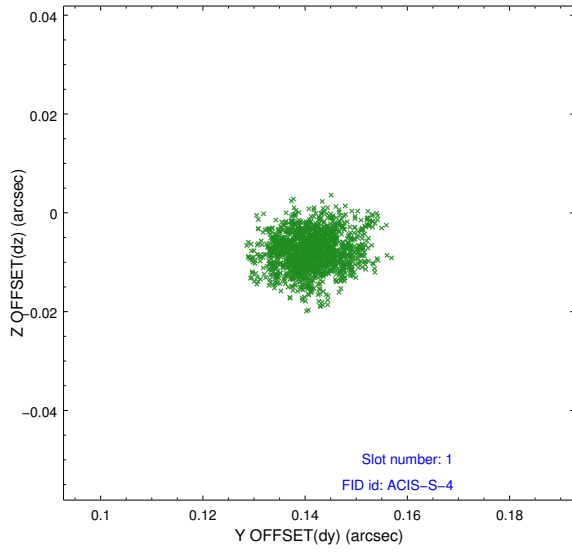


## 2.5 FID Slots

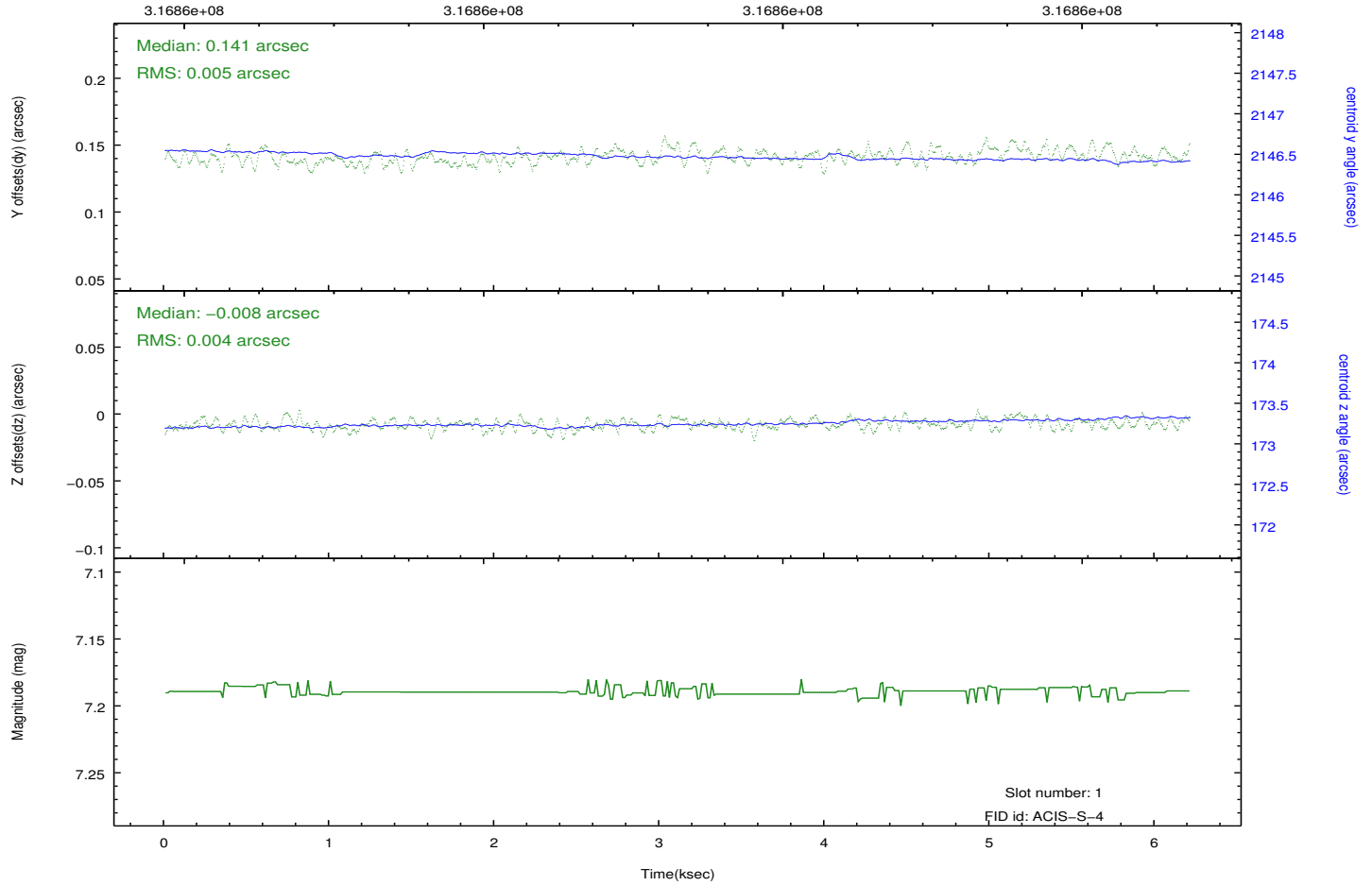
### 2.5.1 Slot 0



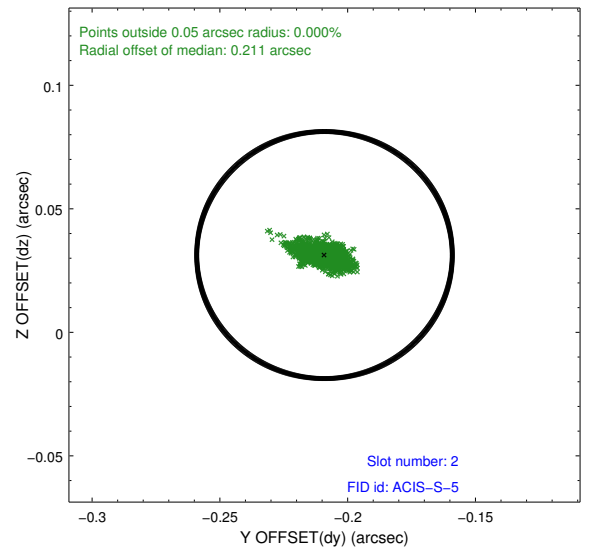
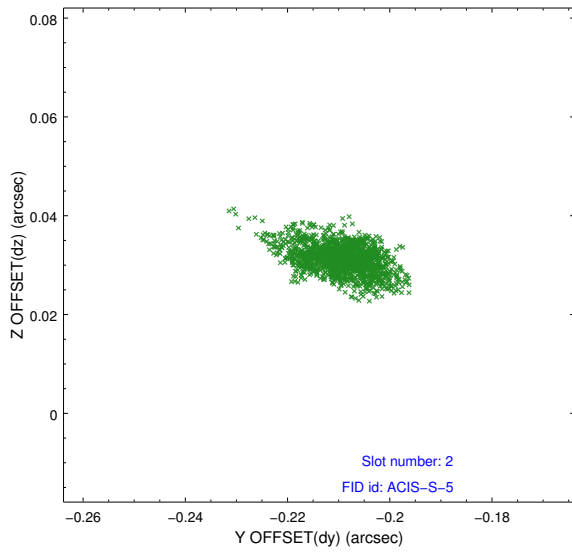
## 2.5.2 Slot 1



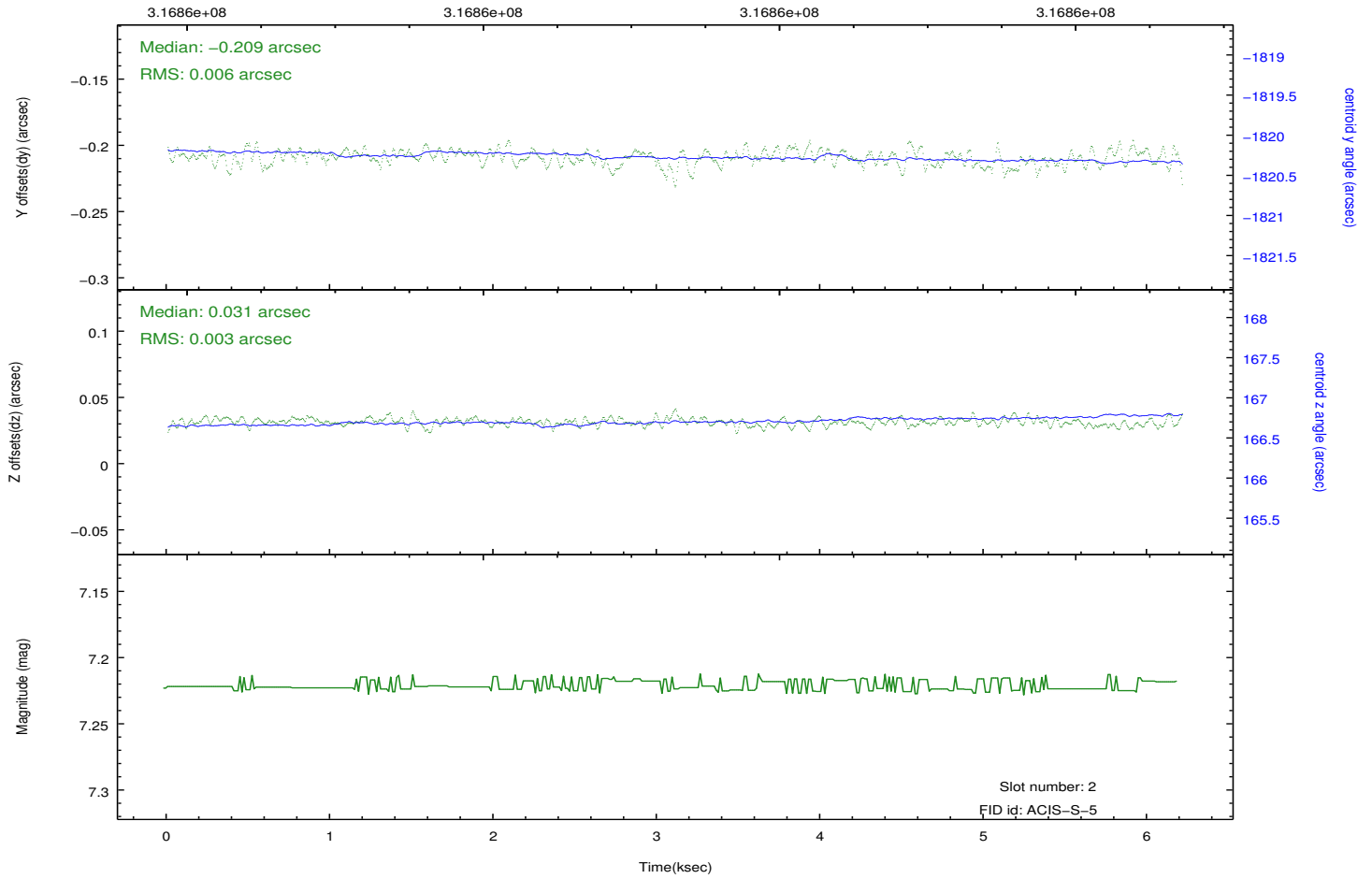
Time (s)



### 2.5.3 Slot 2



Time (s)



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.04319998

### A.2 Comments