

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 14016 - L2 Version 1  
Chandra X-Ray Center

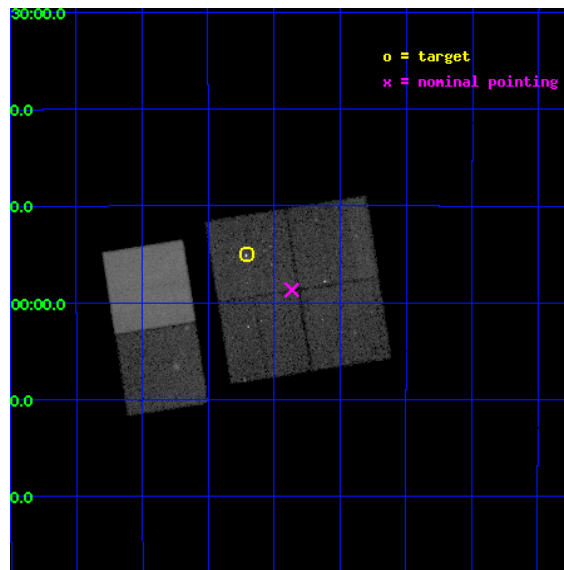
L2 Processing Date : Jun 22 2012

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# 1 Front

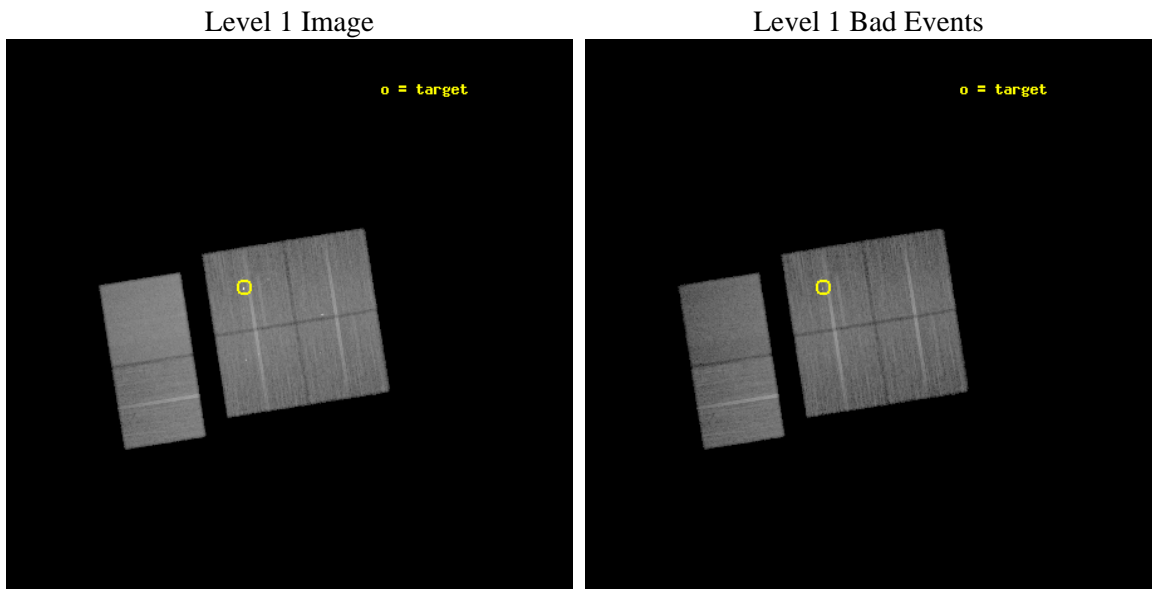
seq_num	801196	Sequence number
obs_id	14016	Observation id
title	Understanding the connection between radio halos and cluster mergers	&#160
observer	Dr Rossella Cassano	Principal investigator
object	RXCJ1512.2-2254	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.0525	Observer's specified target RA [deg]
dec_targ	-22.916389	Observer's specified target Dec [deg]
ra_nom	227.96642060603	Nominal RA [deg]
dec_nom	-22.978060945646	Nominal Dec [deg]
roll_nom	260.99668804818	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34958.359925628	Sum of GTIs [s]
livetime	34515.696122852	Livetime [s]
ontime0	34967.959796667	Sum of GTIs [s]
ontime1	34961.518835723	Sum of GTIs [s]
ontime2	34961.559816003	Sum of GTIs [s]
ontime3	34958.359925628	Sum of GTIs [s]
ontime6	34961.682945907	Sum of GTIs [s]
ontime7	34968.12395668	Sum of GTIs [s]
l2events	226806	Number of level 2 events



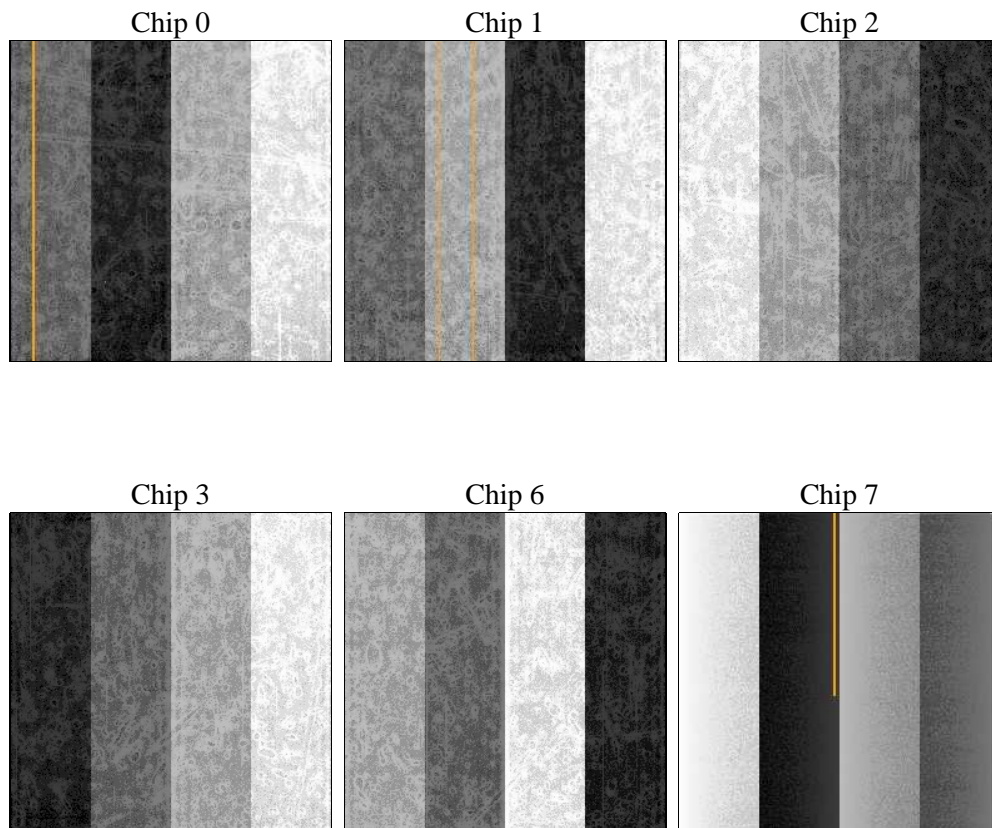
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	34958.359925628	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	34967.959796667	Sum of GTIs [s]
date	2012-06-22T04:04:35	Date and time of file creation	ontime1	34961.518835723	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	34961.559816003	Sum of GTIs [s]
			ontime3	34958.359925628	Sum of GTIs [s]
			ontime6	34961.682945907	Sum of GTIs [s]
			ontime7	34968.12395668	Sum of GTIs [s]
			l1events	1236768	Number of level 1 events

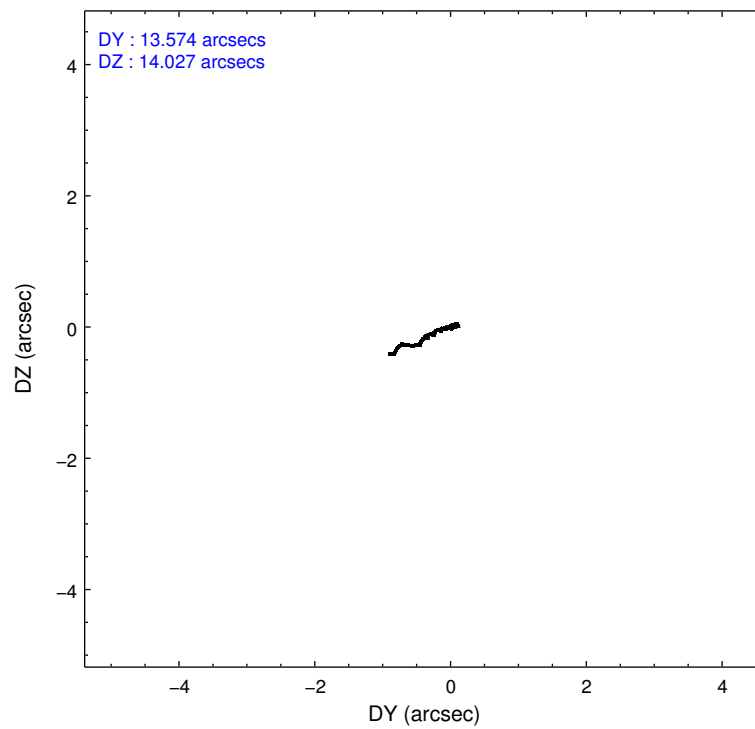
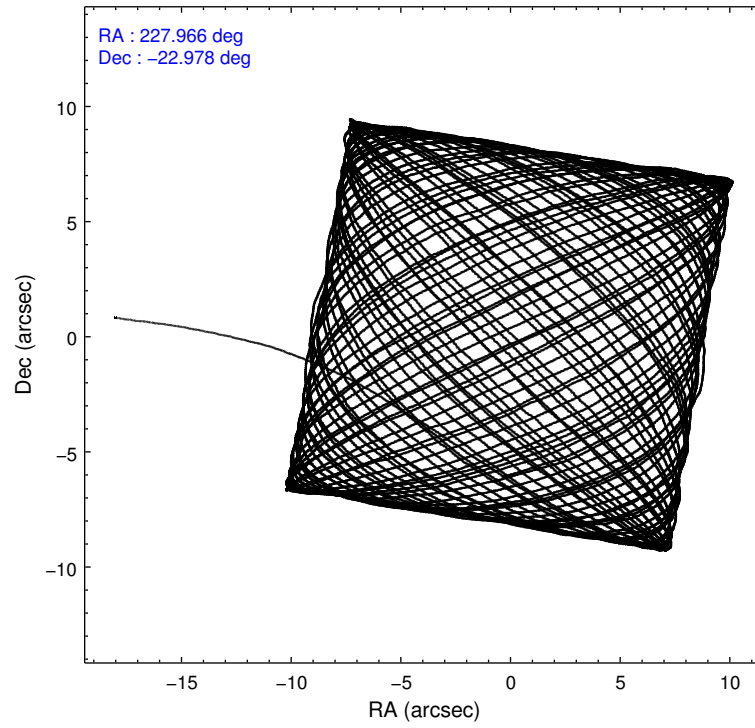
### 2.1.4 Events

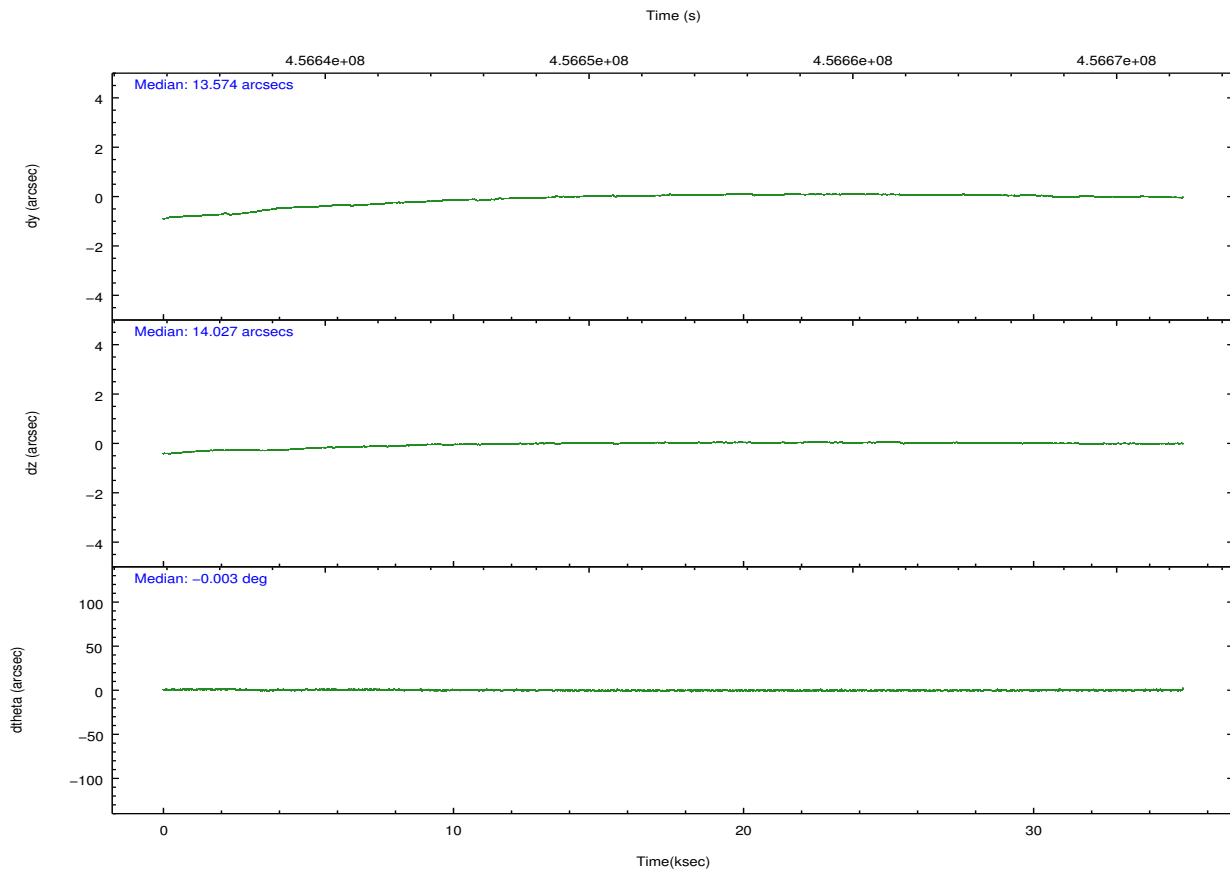
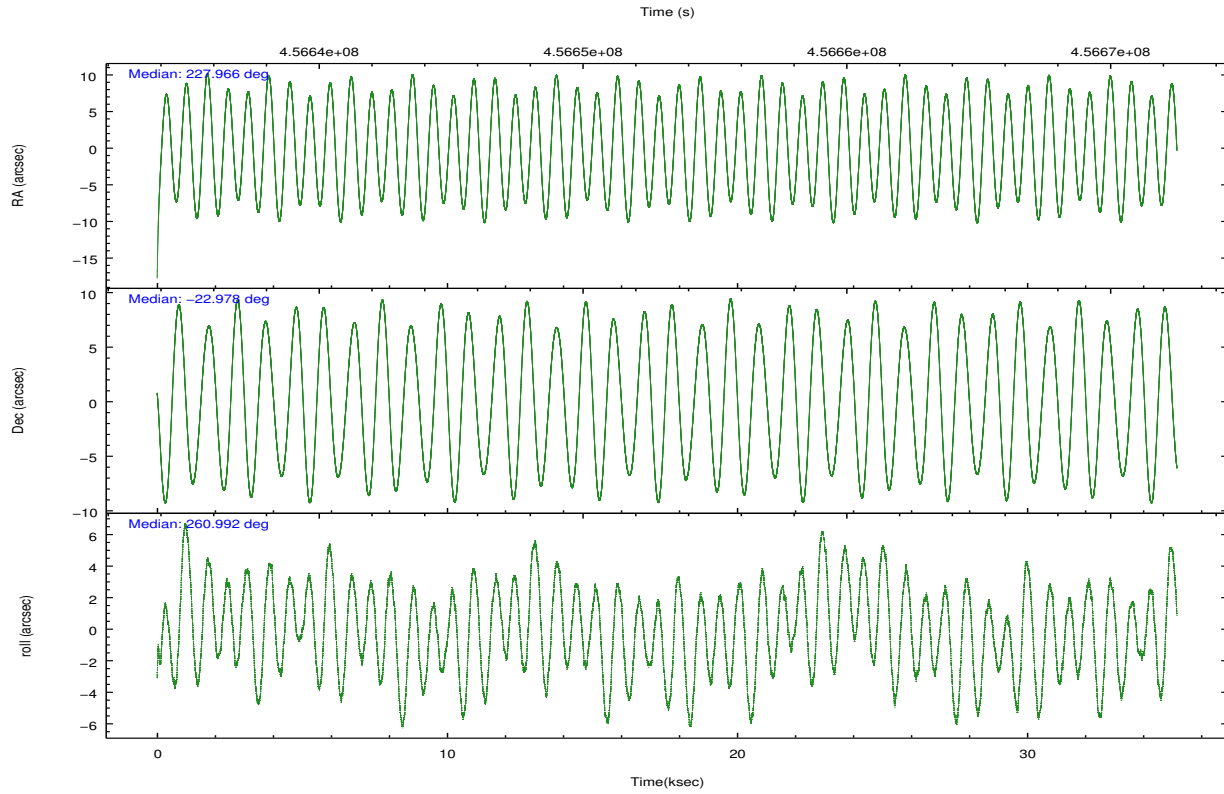
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	179405	183634	195188	204907	209497	264137	grade 0 events	8126	9961	8953	17371	8866	10757
rejected events	156246	157330	171763	171313	185065	147384		4%	5%	4%	8%	4%	4%
rejected %	87%	85%	87%	83%	88%	55%	grade 1 events	105	105	139	400	111	337
								0%	0%	0%	0%	0%	0%
							grade 2 events	5686	5894	5409	6016	5362	24180
								3%	3%	2%	2%	2%	9%
							grade 3 events	2421	2576	2321	2757	2434	10079
								1%	1%	1%	1%	1%	3%
							grade 4 events	2275	2557	2369	2648	2406	9848
								1%	1%	1%	1%	1%	3%
							grade 5 events	8912	9524	8434	10228	10420	27058
								4%	5%	4%	4%	4%	10%
							grade 6 events	4655	5324	4377	4807	5370	61909
								2%	2%	2%	2%	2%	23%
							grade 7 events	147225	147693	163186	160680	174528	119969
								82%	80%	83%	78%	83%	45%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	227.955598	227.9664206060343	CCD I2 on	Y	Y
[deg] Pointing Dec	-22.952419	-22.97806094564561	CCD I3 on	Y	Y
[deg] Pointing Roll	260.783779	260.9966880481778	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	456635762.184000	456634493.53079	CCD S5 on	N	N
Observation start date	2012-06-21T03:14:56	2012-06-21T02:54:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	456670762.184000	456671467.33276	On-chip summing requested	N	N
Observation end date	2012-06-21T12:58:16	2012-06-21T13:11:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





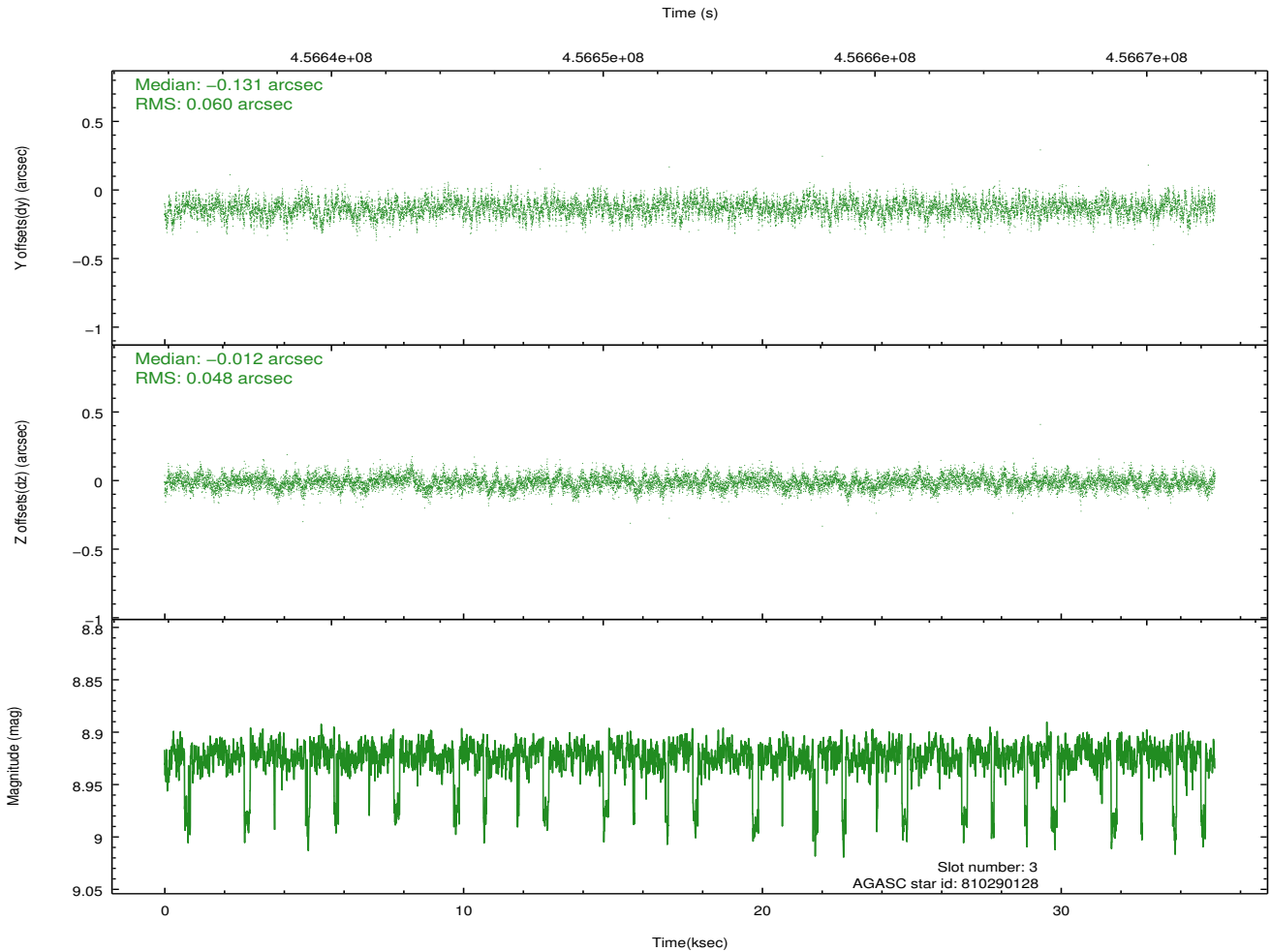
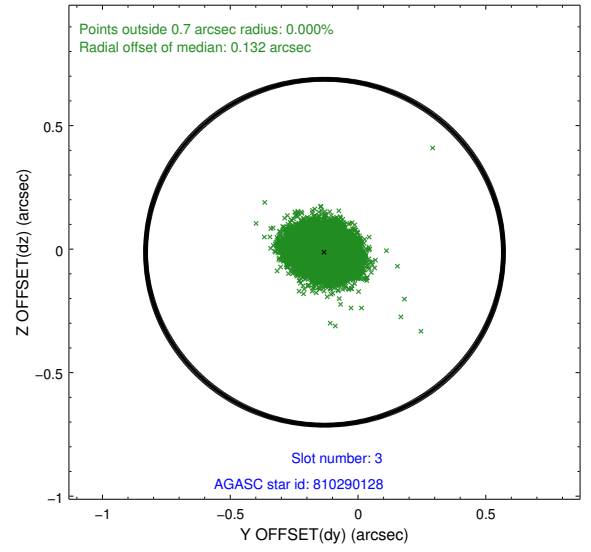
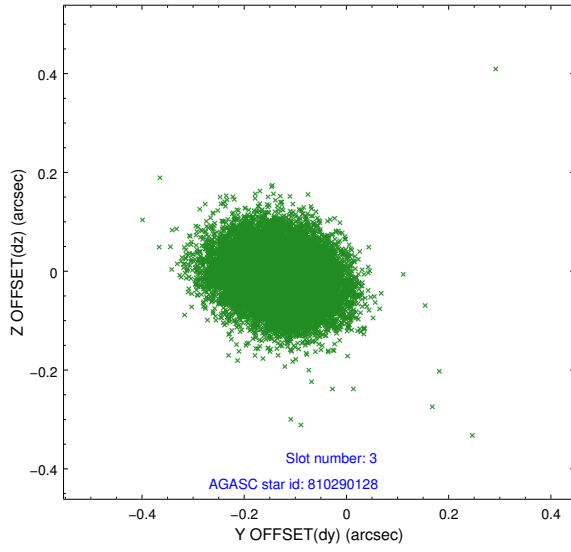
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	8574	0.054	0.003	0.008	0.019	0.000000	0.000000	926.11	-837.53
1	FID	ACIS-I-5	7.09	8575	-0.229	0.059	0.008	0.018	0.000000	0.000000	-1822.29	1059.94
2	FID	ACIS-I-6	7.10	8575	0.085	0.009	0.010	0.022	0.000000	0.000000	391.60	1704.48
3	GUIDE	810290128	8.92	17065	-0.131	-0.012	0.081	0.133	228.590659	-22.470013	-2048.01	1807.73
4	GUIDE	886181264	6.92	17151	-0.102	-0.136	0.066	0.110	227.220615	-23.066147	800.40	-2336.36
5	GUIDE	886182992	9.35	17067	0.079	0.179	0.098	0.158	227.809601	-23.423133	1750.78	-204.18
6	GUIDE	886322056	8.73	17146	0.111	-0.024	0.085	0.140	228.442150	-23.540855	1837.16	1924.87
7	GUIDE	886186960	9.59	17127	0.044	0.000	0.131	0.215	227.712478	-23.569721	2323.73	-435.82

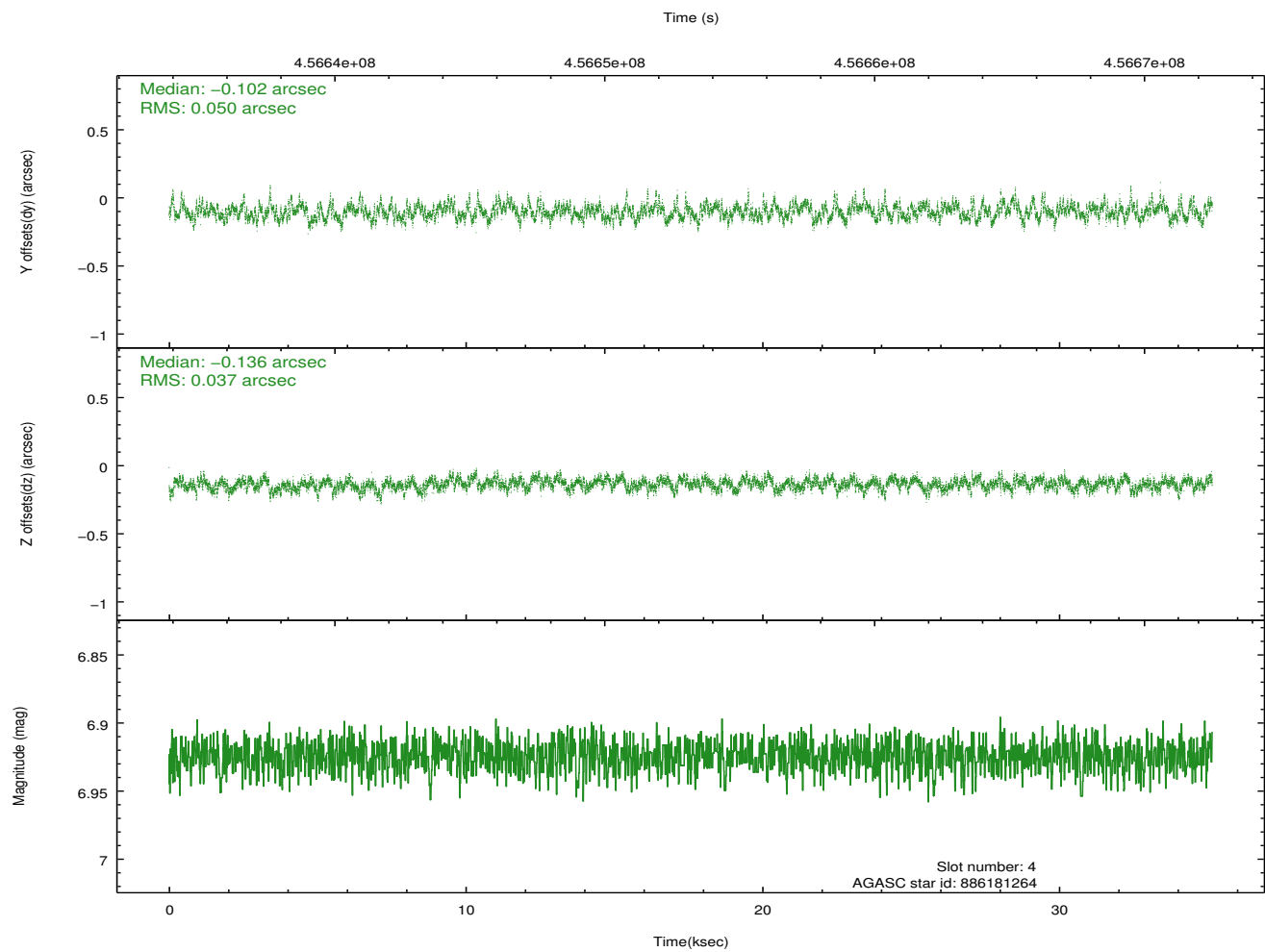
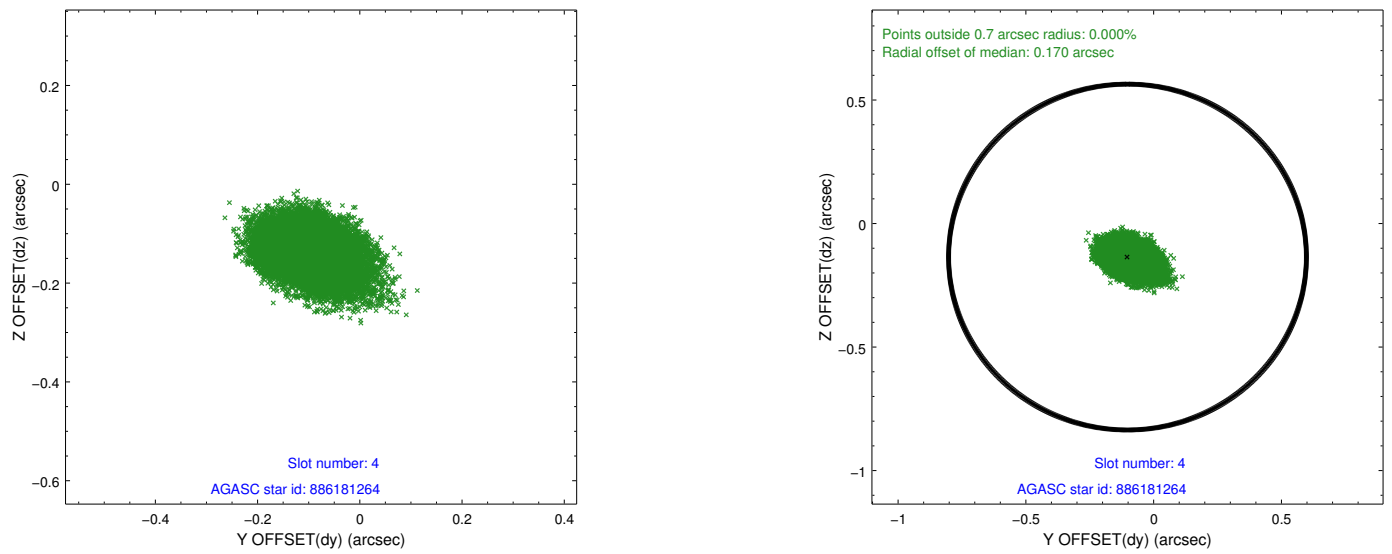
∞

## 2.4 Star Slots

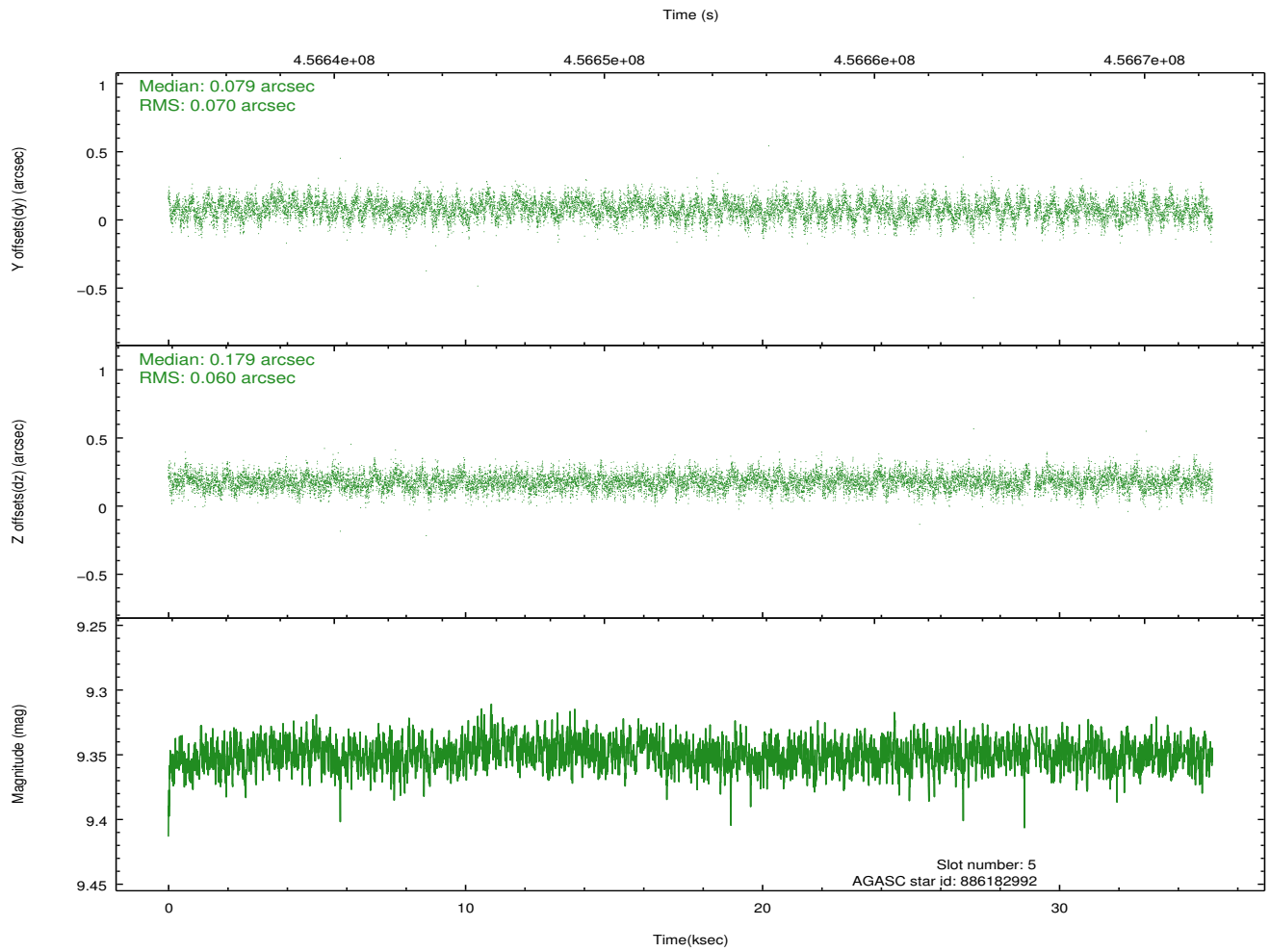
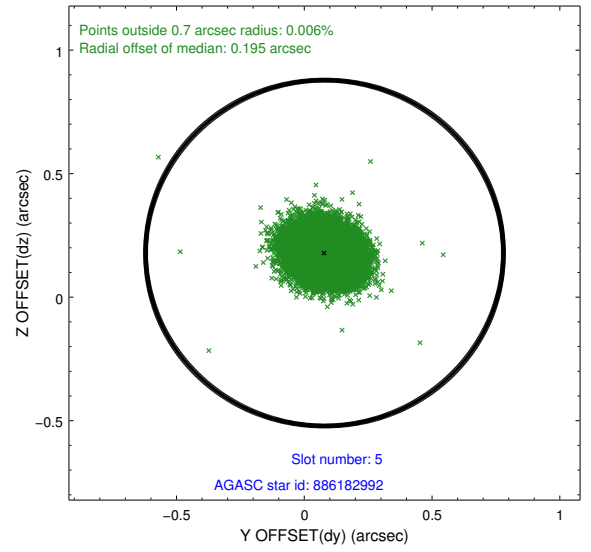
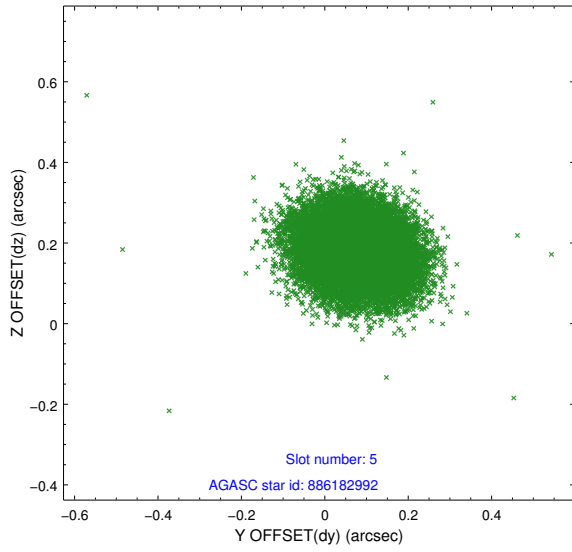
### 2.4.1 Slot 3



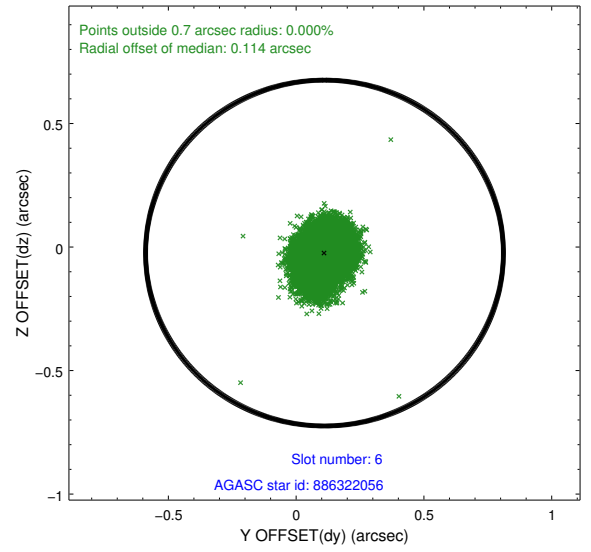
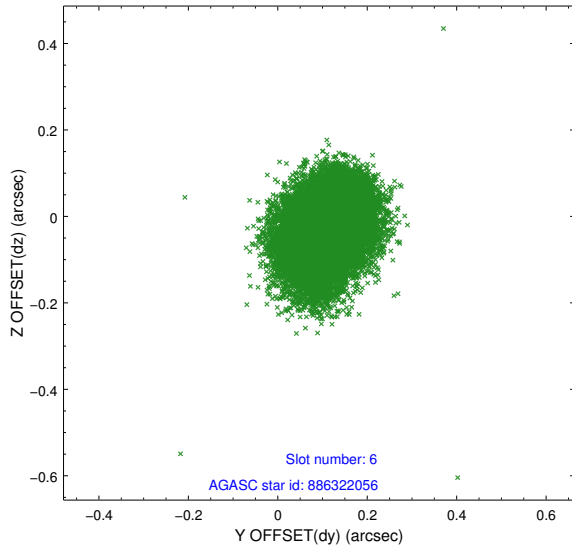
## 2.4.2 Slot 4



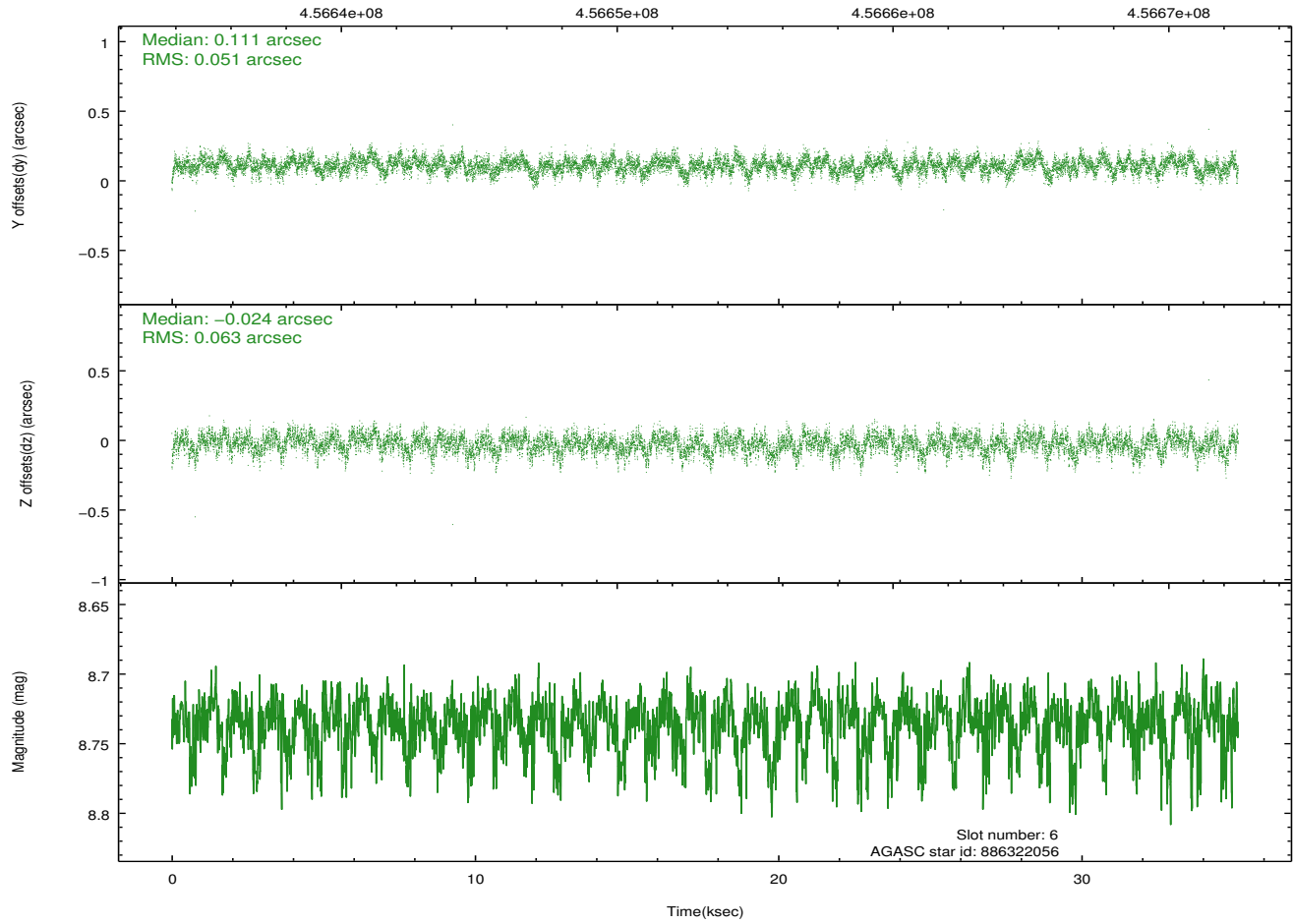
### 2.4.3 Slot 5



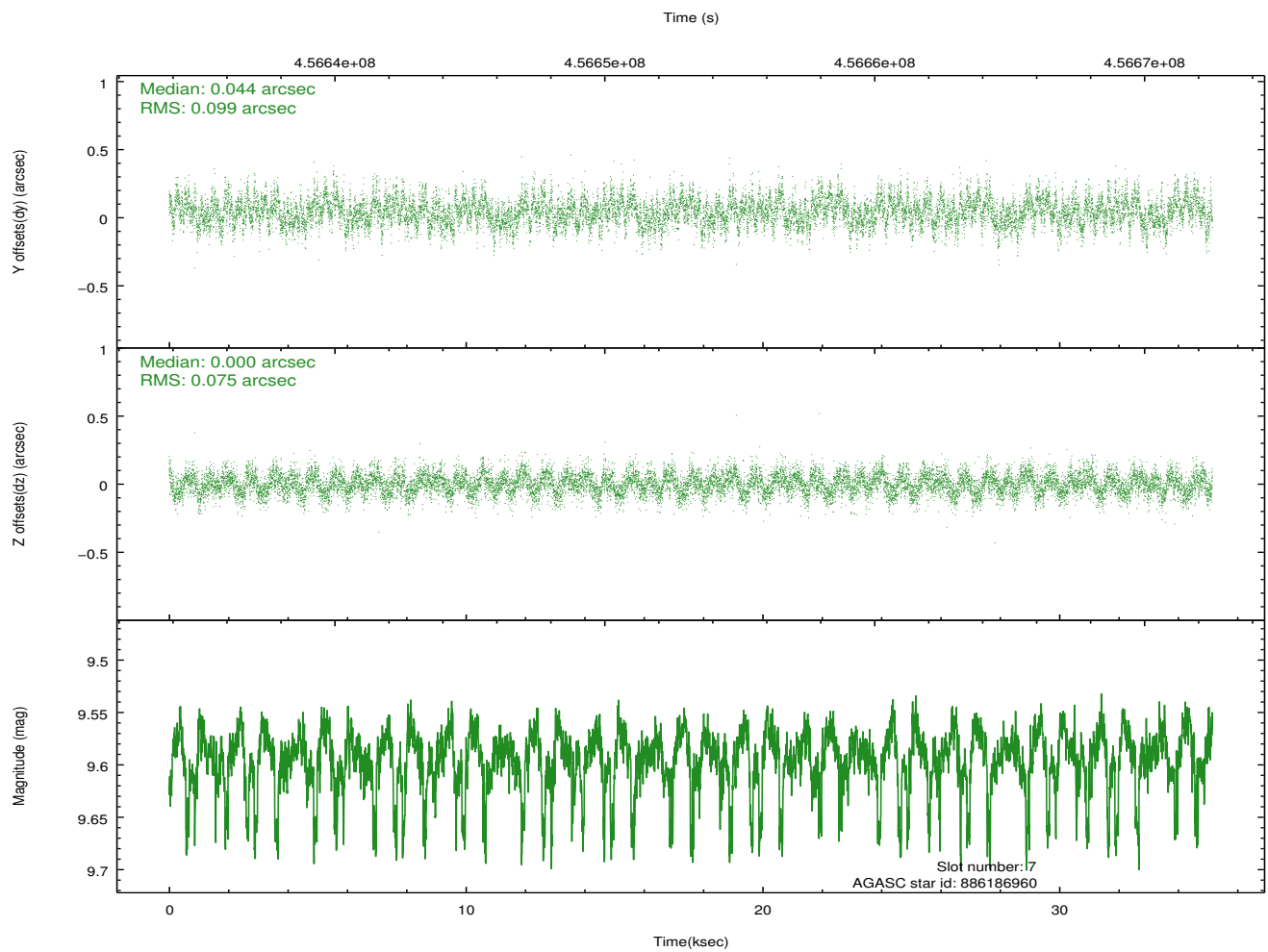
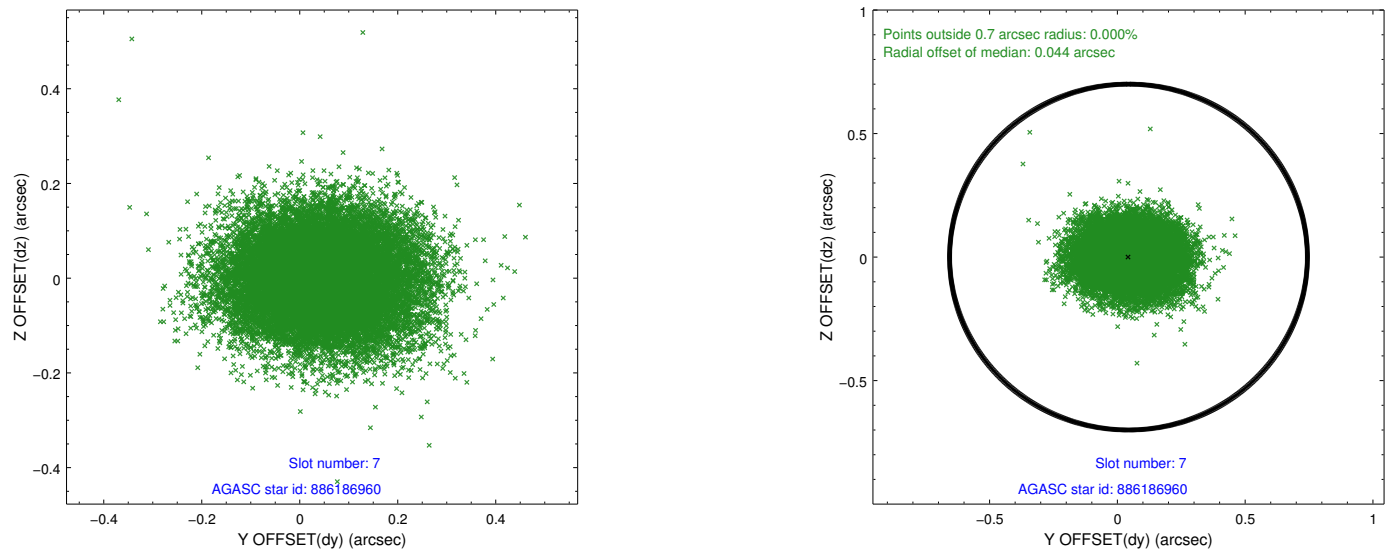
## 2.4.4 Slot 6



Time (s)

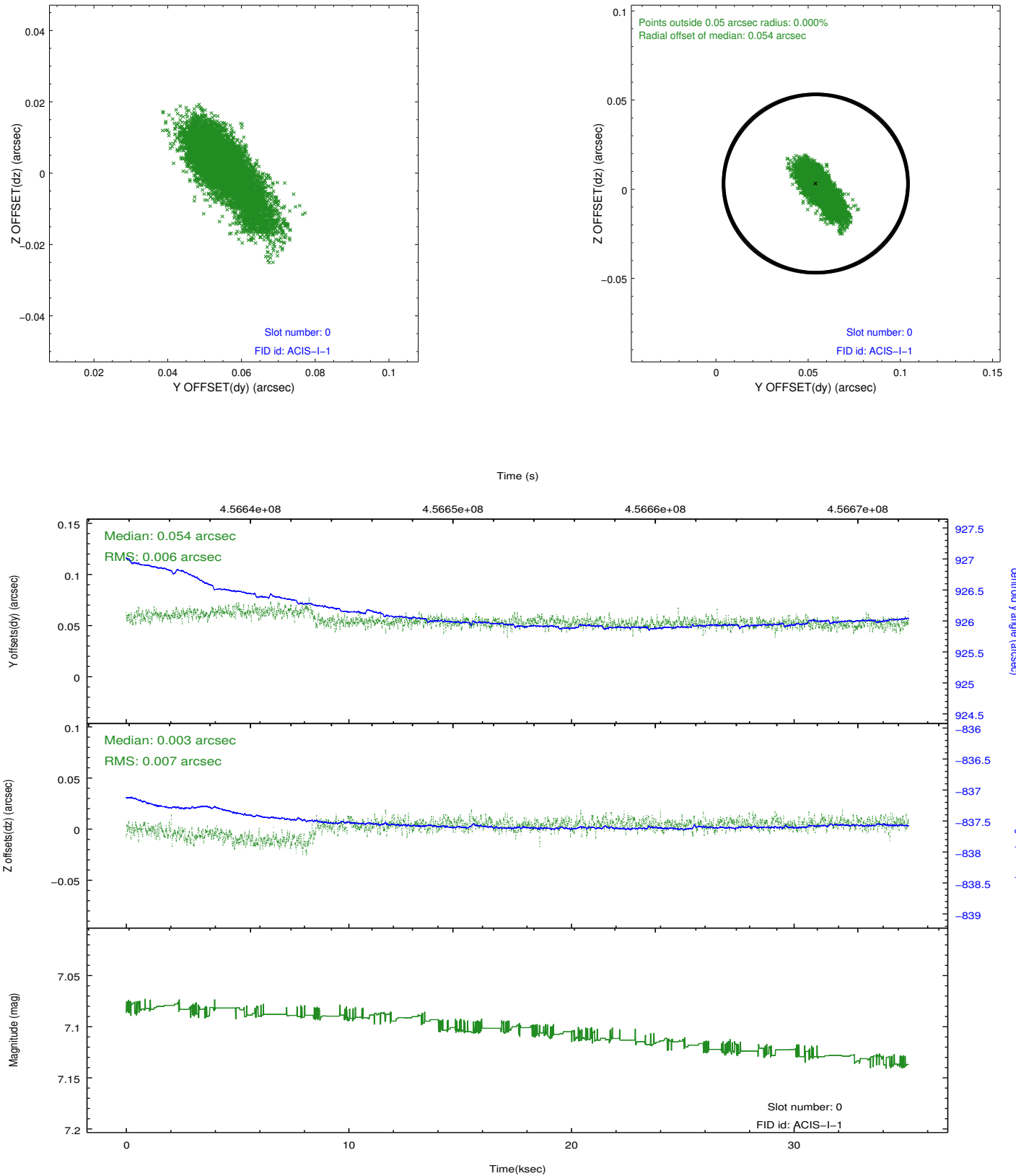


## 2.4.5 Slot 7

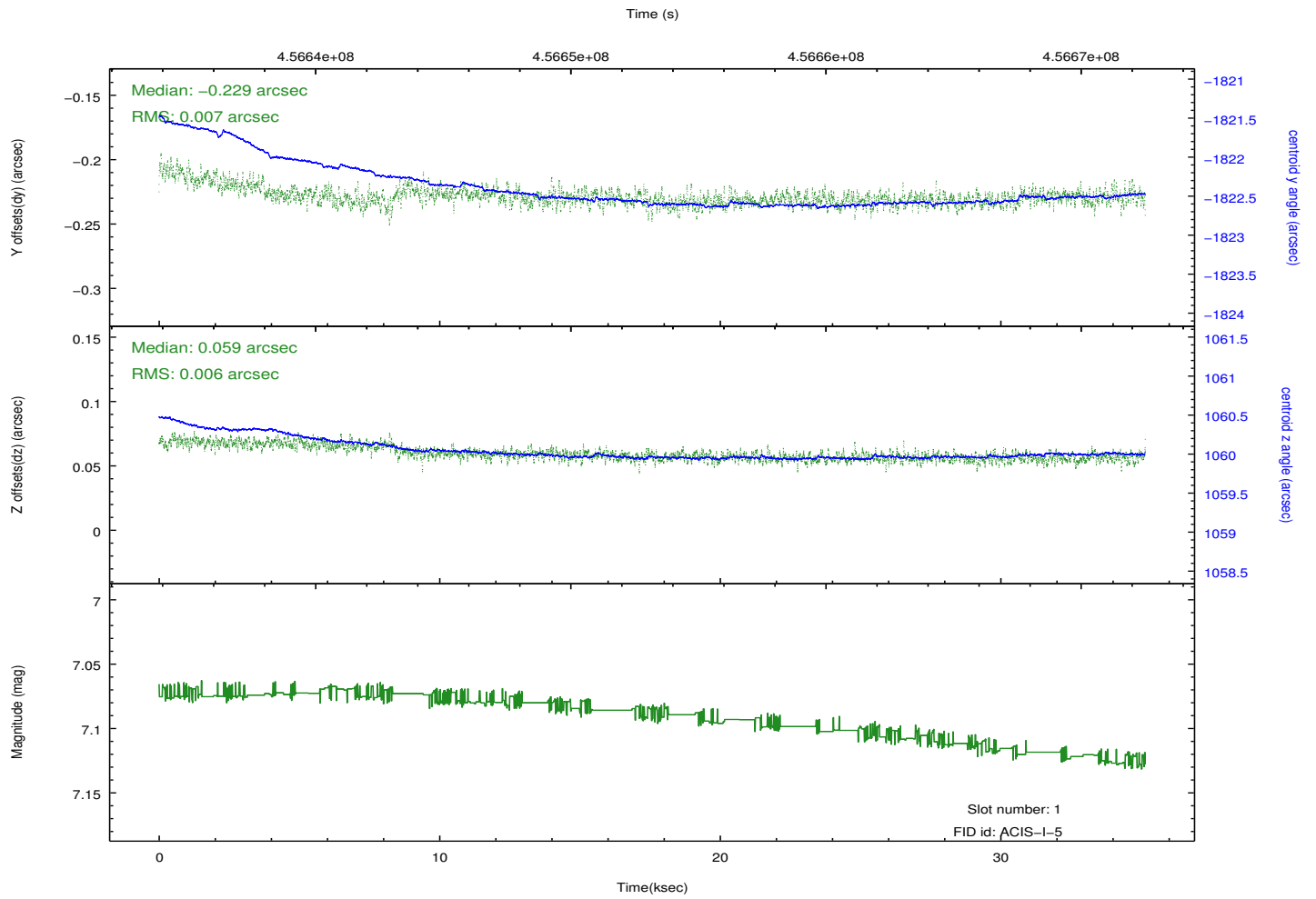
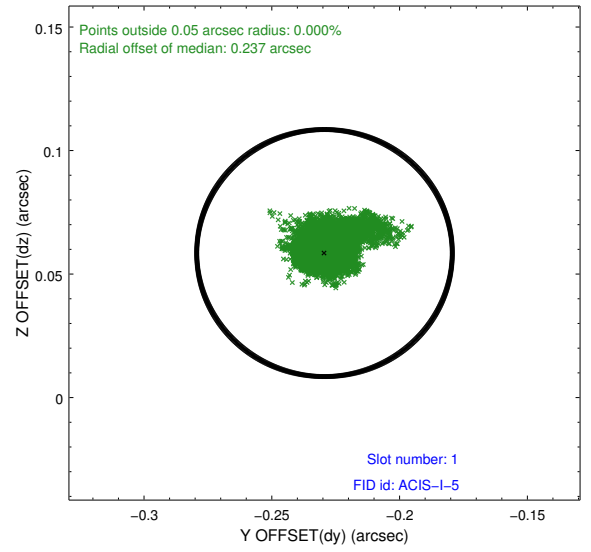
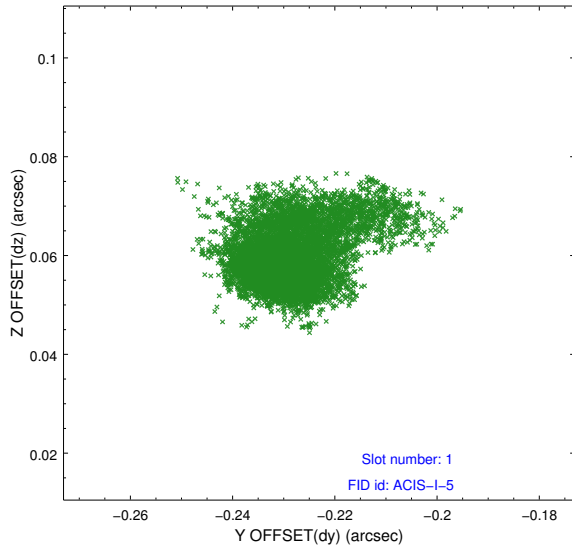


## 2.5 FID Slots

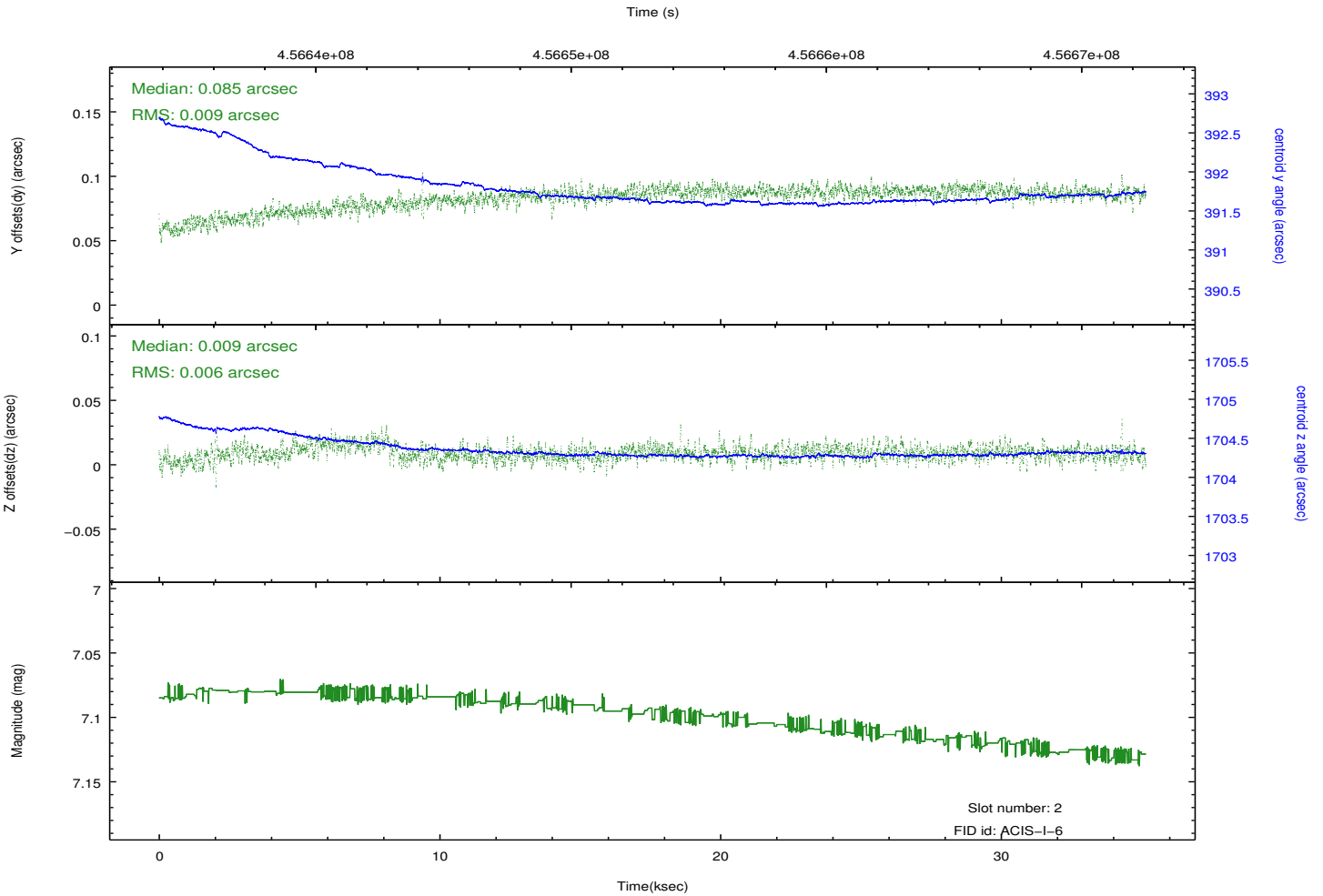
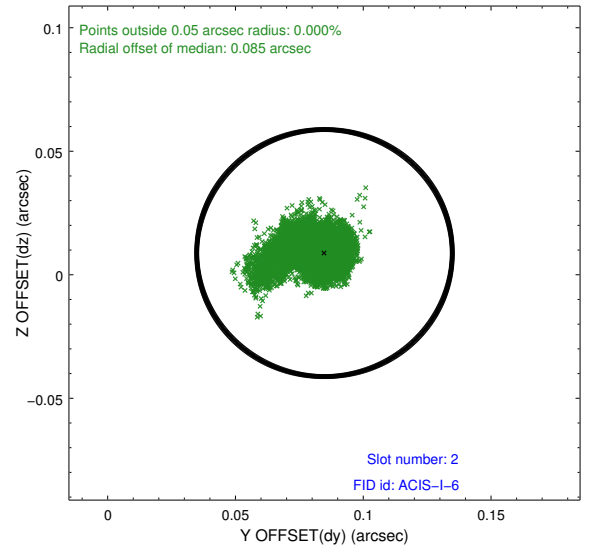
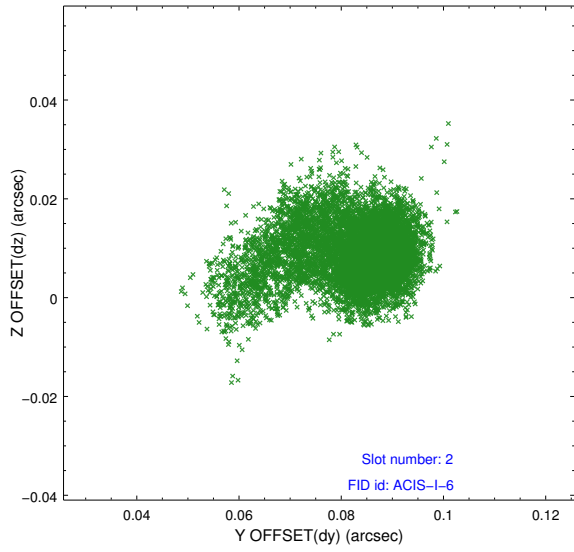
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.958359925628

### A.2 Comments