

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2211 - L2 Version 3  
Chandra X-Ray Center

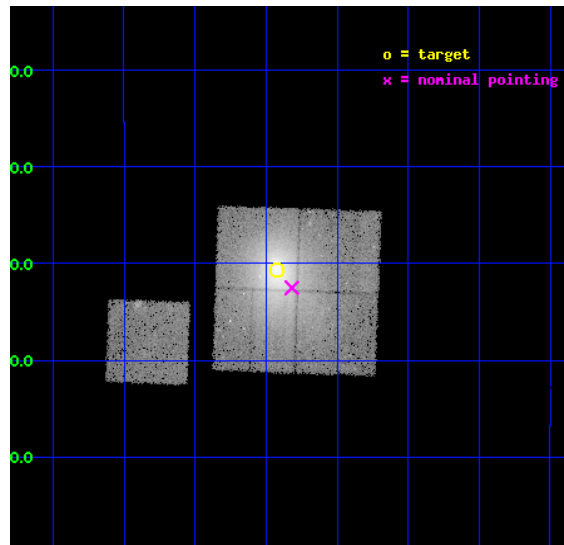
L2 Processing Date : Sep 14 2012

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# 1 Front

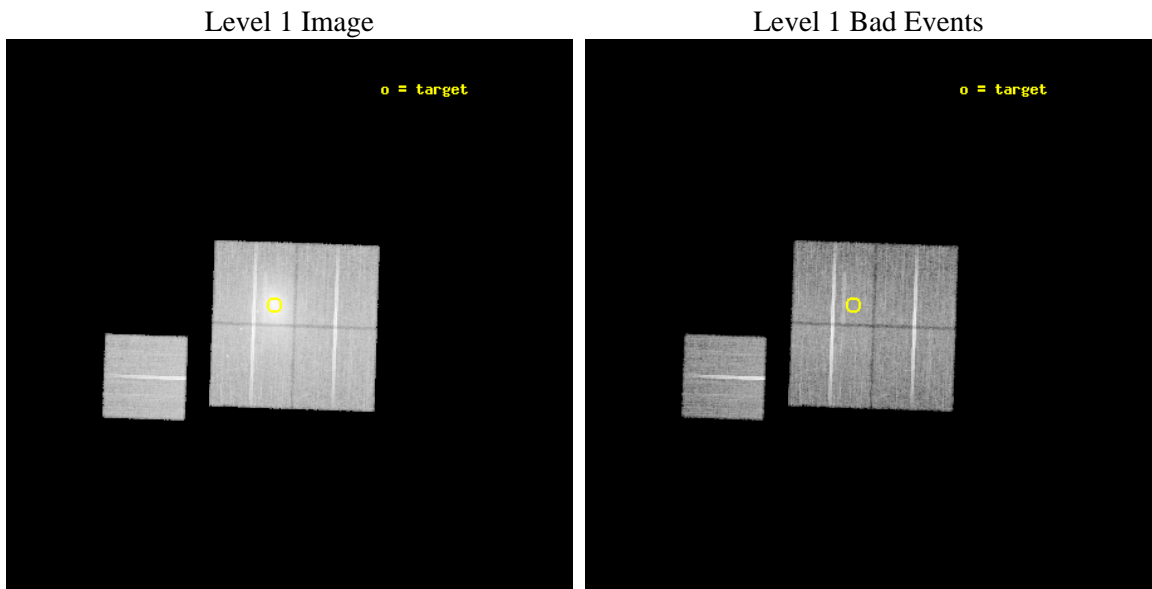
seq_num	800150	Sequence number
obs_id	2211	Observation id
title	COOLING FLOWS WITHOUT CENTRAL RADIO SOURCES?	Proposal title
observer	Dr. John Stocke	Principal investigator
object	A644	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	124.355833	Observer's specified target RA [deg]
dec_targ	-7.511778	Observer's specified target Dec [deg]
ra_nom	124.32970867518	Nominal RA [deg]
dec_nom	-7.5420098862882	Nominal Dec [deg]
roll_nom	272.00698709296	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30077.892298296	Sum of GTIs [s]
livetime	29684.902492397	Livetime [s]
ontime0	30074.628188133	Sum of GTIs [s]
ontime1	30074.669238135	Sum of GTIs [s]
ontime2	30074.710397735	Sum of GTIs [s]
ontime3	30077.892298296	Sum of GTIs [s]
ontime6	30074.587197989	Sum of GTIs [s]
l2events	234103	Number of level 2 events



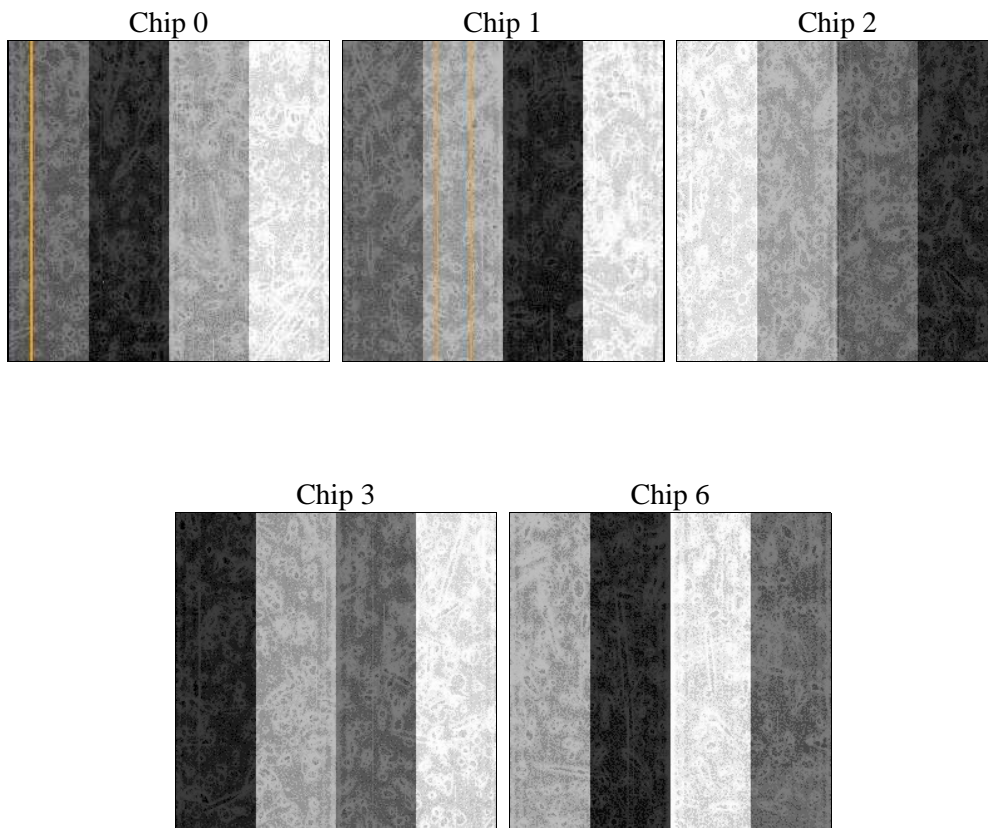
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30077.892298296	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime0	30074.628188133	Sum of GTIs [s]
date	2012-09-14T07:23:27	Date and time of file creation	ontime1	30074.669238135	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	30074.710397735	Sum of GTIs [s]
			ontime3	30077.892298296	Sum of GTIs [s]
			ontime6	30074.587197989	Sum of GTIs [s]
			l1events	1034066	Number of level 1 events

### 2.1.4 Events

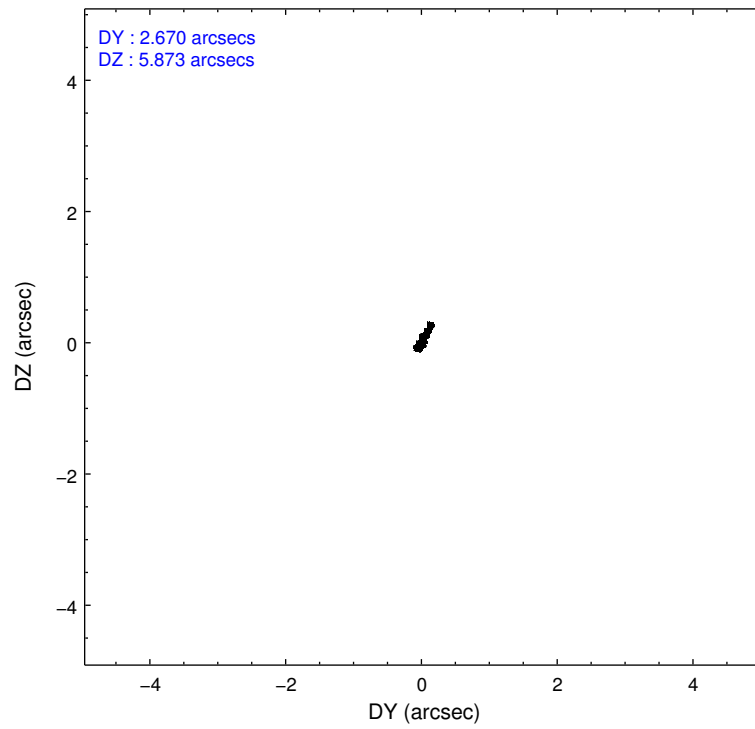
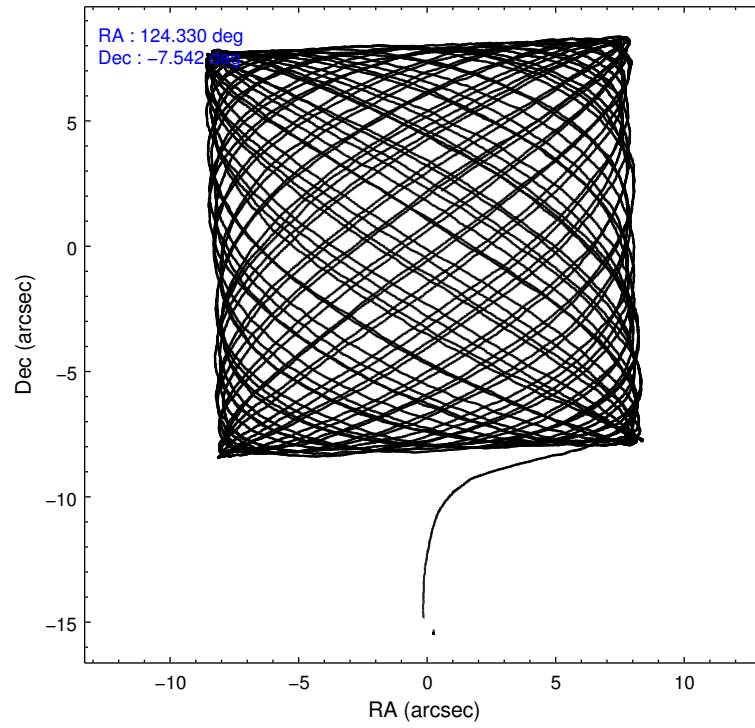
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	174446	176353	214886	290704	177677
rejected events	146329	143030	167201	161392	159879
rejected %	83%	81%	77%	55%	89%

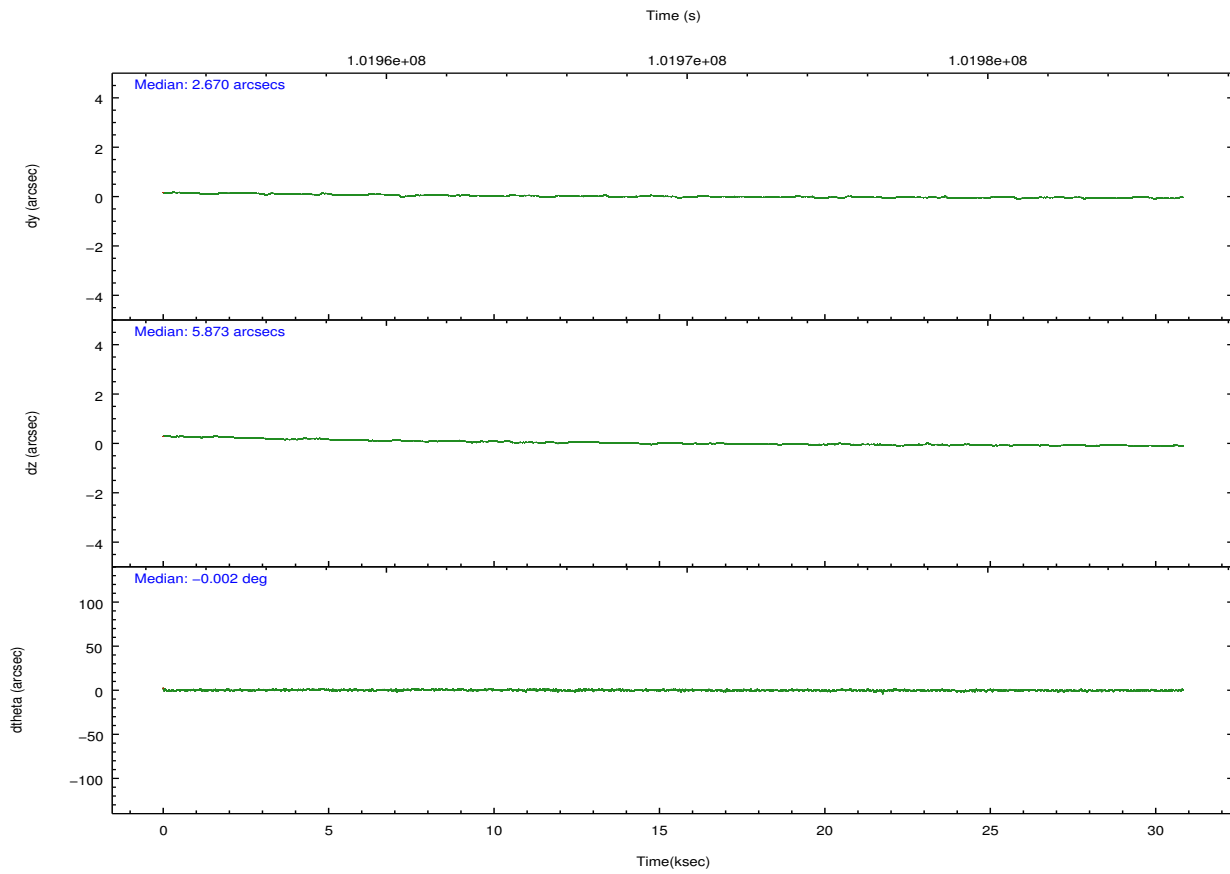
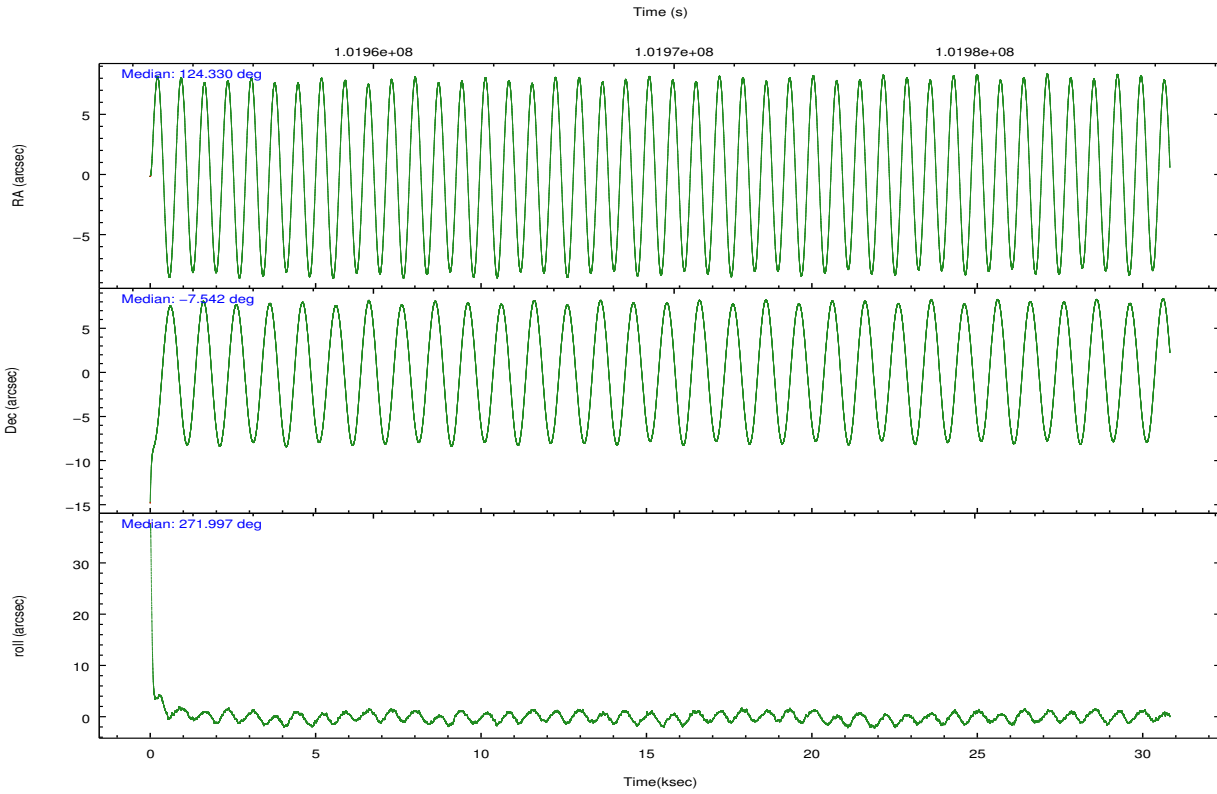
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	15236	18816	31466	98425	6783
	8%	10%	14%	33%	3%
grade 1 events	121	103	185	526	71
	0%	0%	0%	0%	0%
grade 2 events	4944	5310	6898	14485	3558
	2%	3%	3%	4%	2%
grade 3 events	2305	2624	2718	5293	1987
	1%	1%	1%	1%	1%
grade 4 events	2202	2565	2752	5115	1970
	1%	1%	1%	1%	1%
grade 5 events	5387	5794	5121	6122	6001
	3%	3%	2%	2%	3%
grade 6 events	3432	4015	3855	6005	3504
	1%	2%	1%	2%	1%
grade 7 events	140819	137126	161891	154733	153803
	80%	77%	75%	53%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	124.315011	124.3297086751777	Subarray requested	NONE	NONE
[deg] Pointing Dec	-7.518720	-7.542009886288247	Alternating exposures requested	N	N
[deg] Pointing Roll	271.796357	272.0069870929594	[s] Primary exposure time	0.000000	3.1
[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)	101954944.184000	101953669.8435			
Observation start date	2001-03-26T00:48:00	2001-03-26T00:27:49			
[s] Observation end time (MET)	101984944.184000	101985628.31973			
Observation end date	2001-03-26T09:08:00	2001-03-26T09:20:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



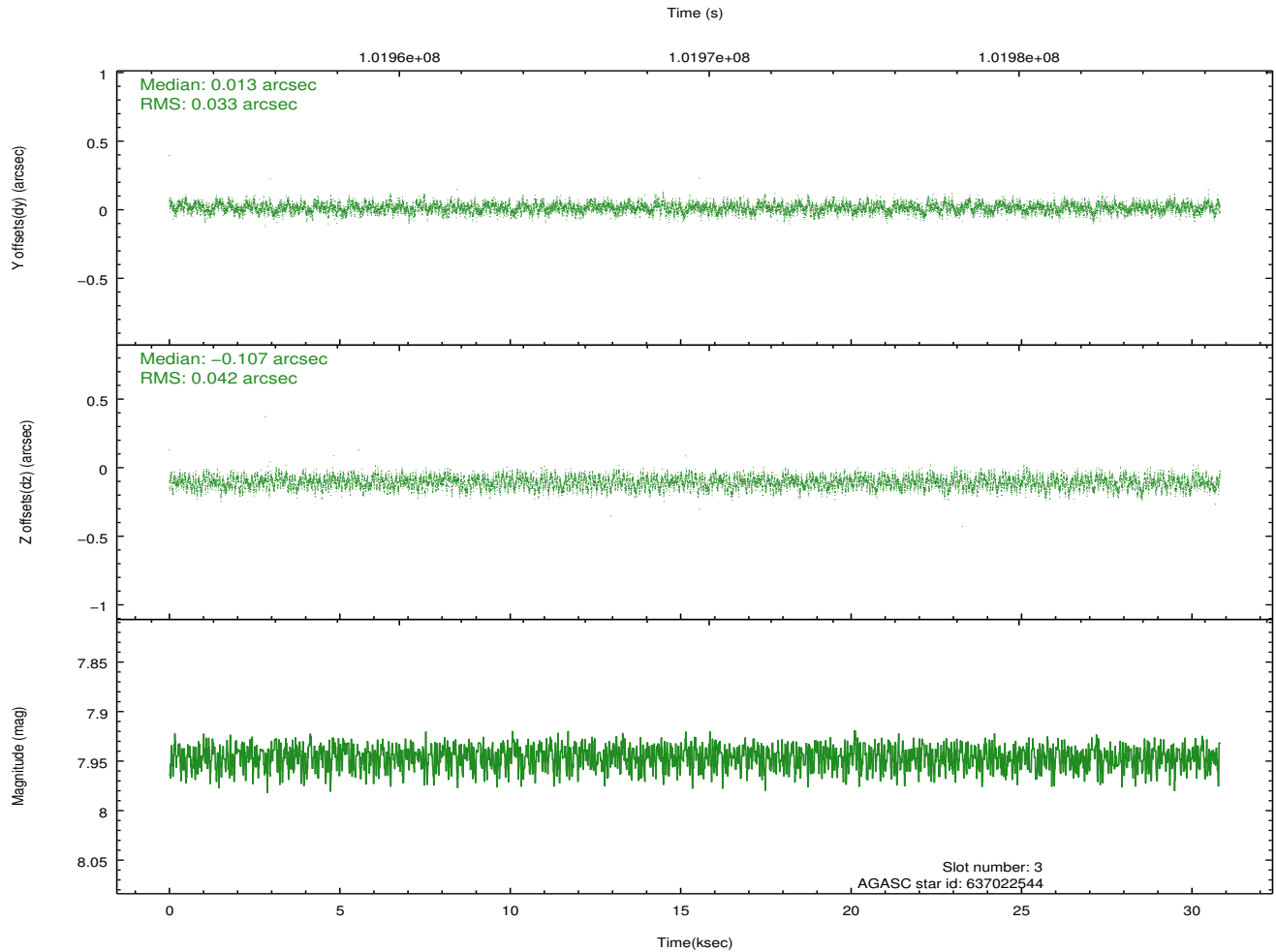
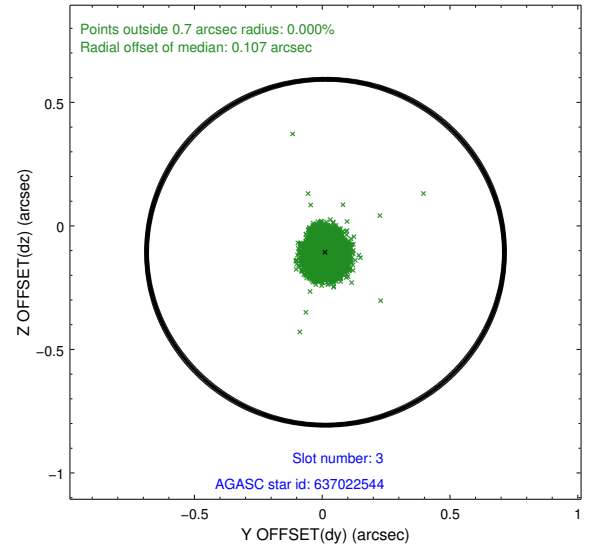
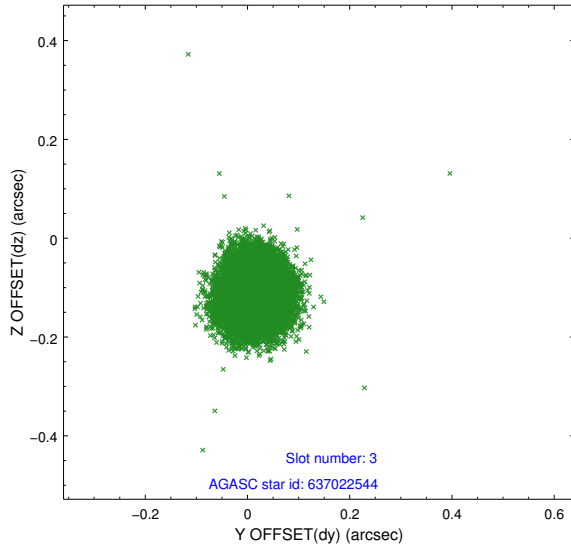


### Slot Statistics

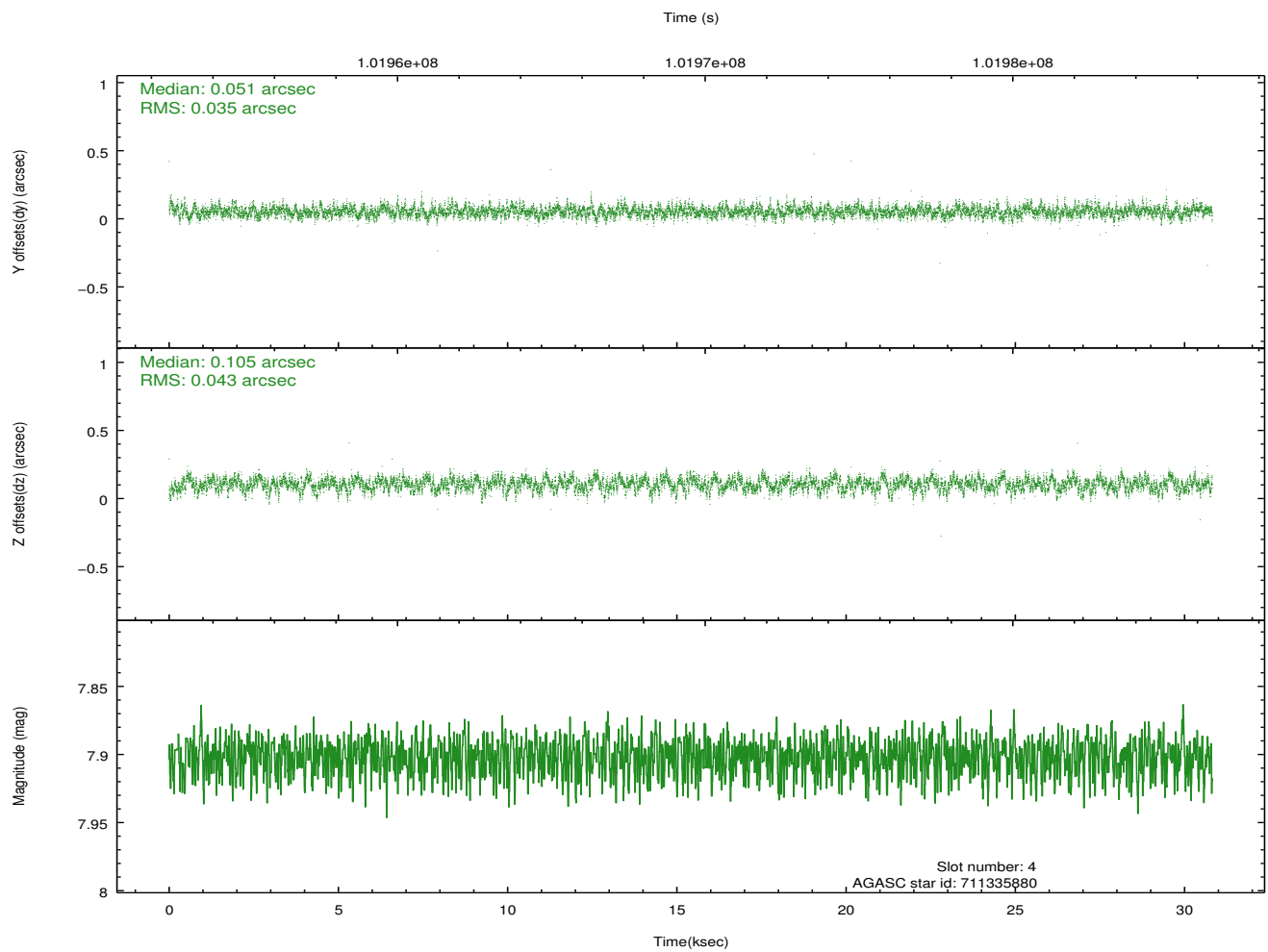
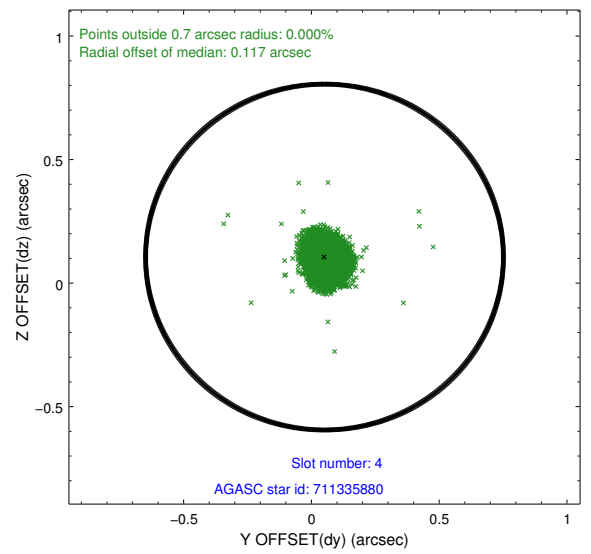
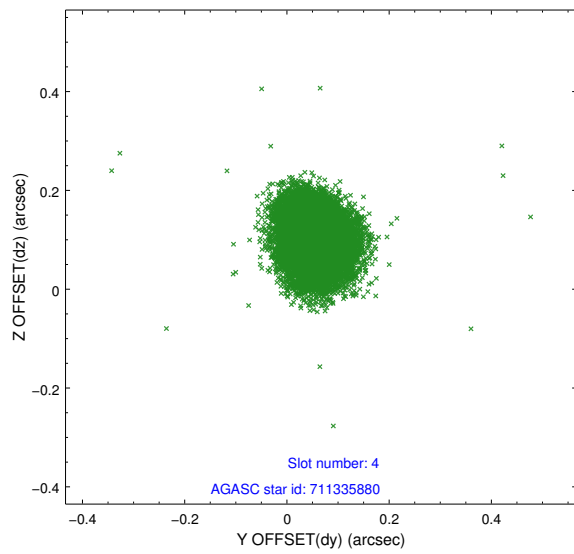
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	7516	-0.035	-0.049	0.009	0.016	0.000000	0.000000	-757.09	-835.68
1	FID	ACIS-I-4	7.18	7515	-0.007	0.041	0.007	0.013	0.000000	0.000000	2156.97	1070.54
2	FID	ACIS-I-5	7.23	7519	-0.060	0.077	0.010	0.016	0.000000	0.000000	-1810.85	1068.52
3	GUIDE	637022544	7.95	15034	0.013	-0.107	0.058	0.089	123.951431	-7.336465	-695.59	-1276.77
4	GUIDE	711335880	7.90	15030	0.051	0.105	0.058	0.095	124.602828	-7.571278	221.59	1021.12
5	GUIDE	637016720	8.01	15035	-0.067	0.044	0.058	0.093	124.059895	-6.973963	-1988.27	-849.54
6	GUIDE	637014640	8.44	15032	-0.038	0.007	0.063	0.101	124.901530	-7.342721	-566.69	2113.24
7	GUIDE	711196920	9.02	15027	0.042	-0.049	0.070	0.114	123.804494	-7.910801	1355.31	-1863.03

## 2.4 Star Slots

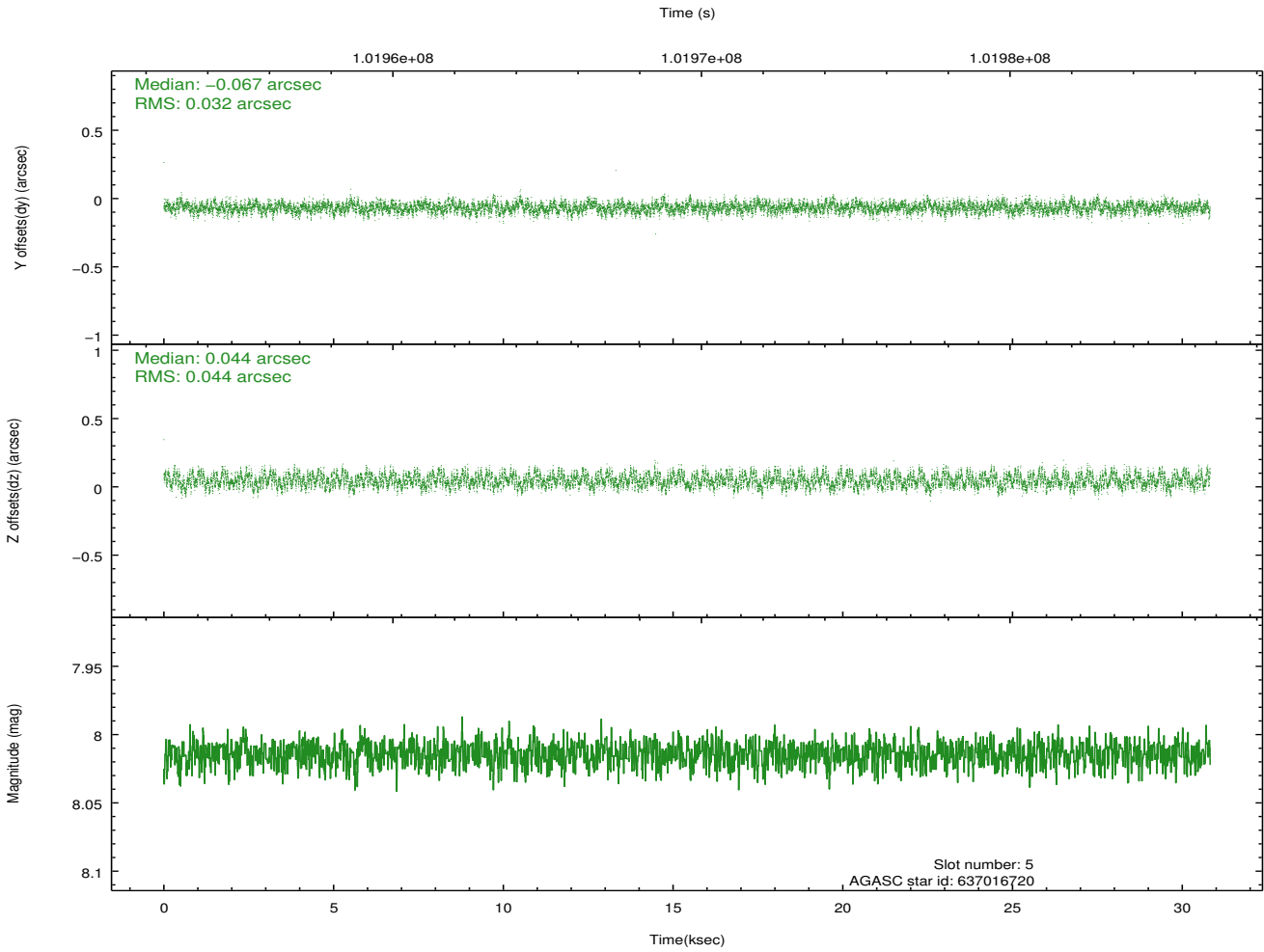
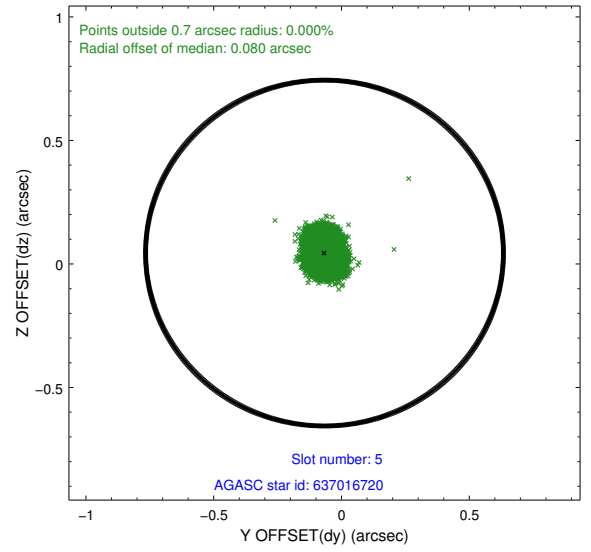
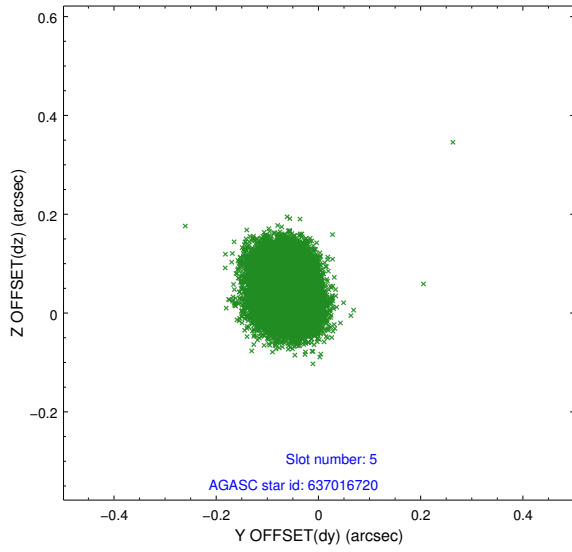
### 2.4.1 Slot 3



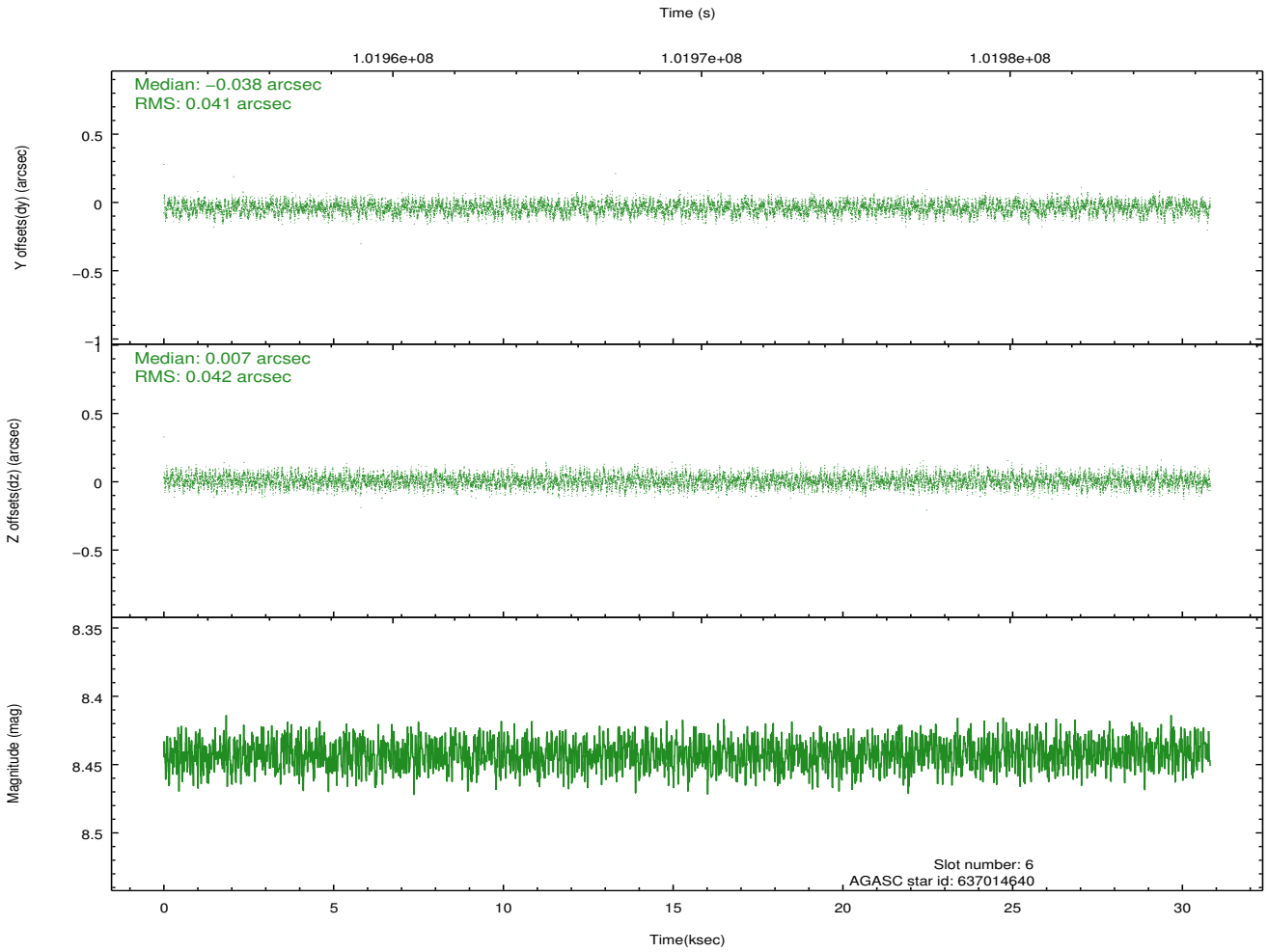
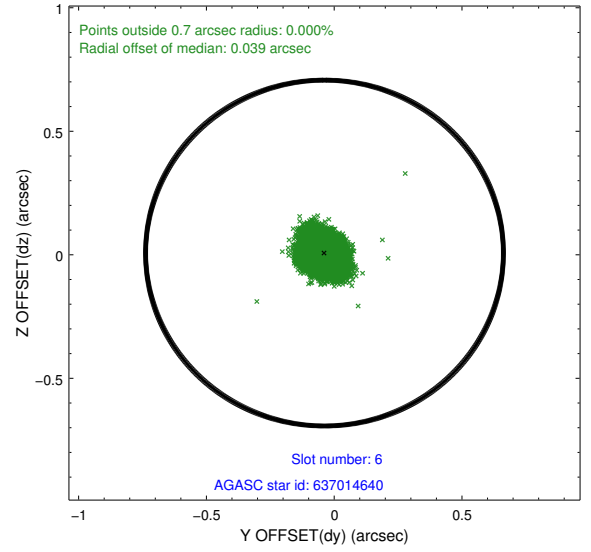
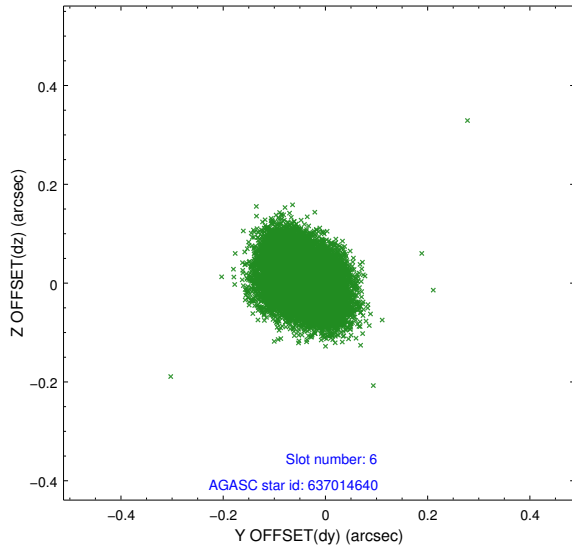
## 2.4.2 Slot 4



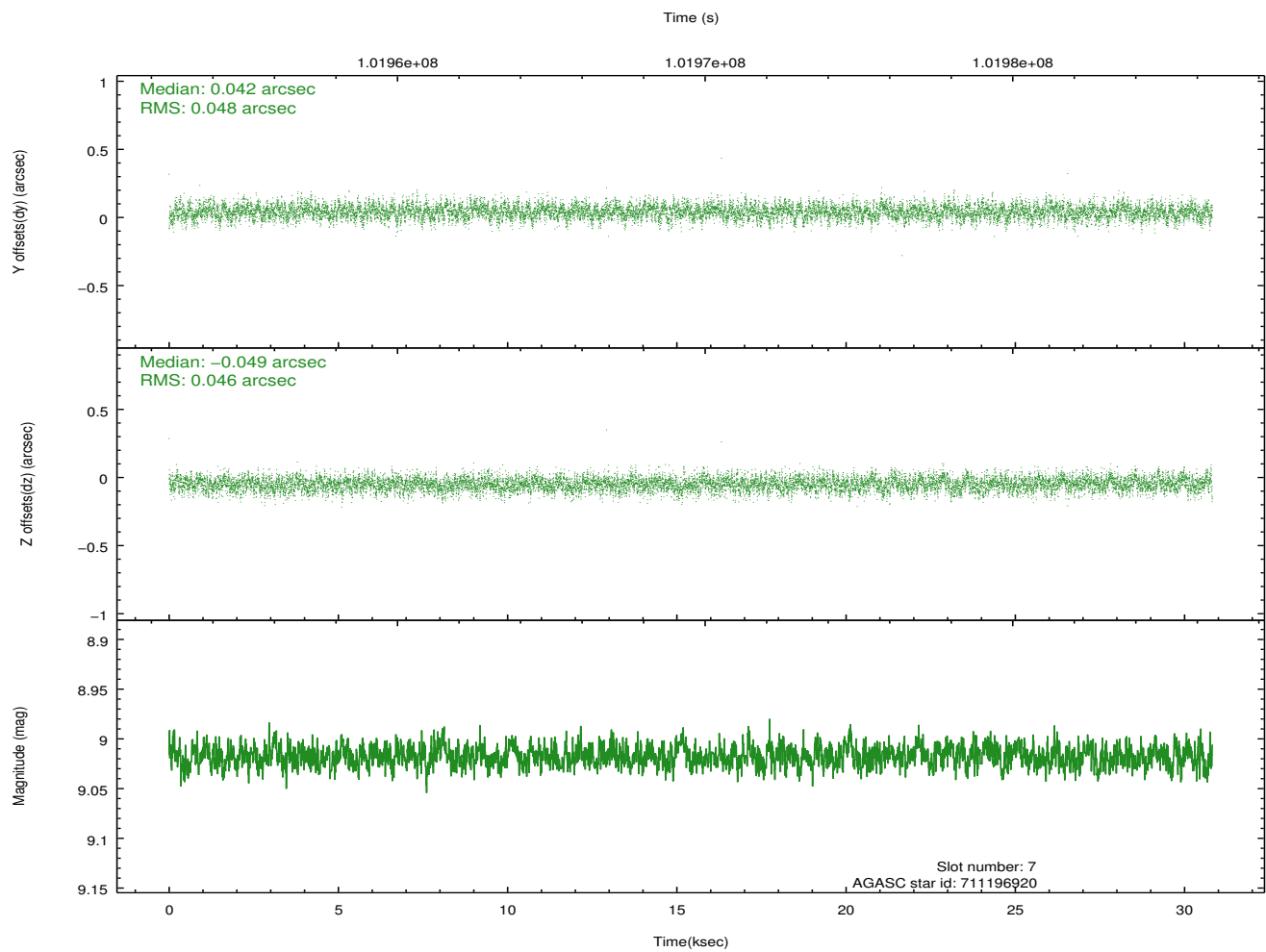
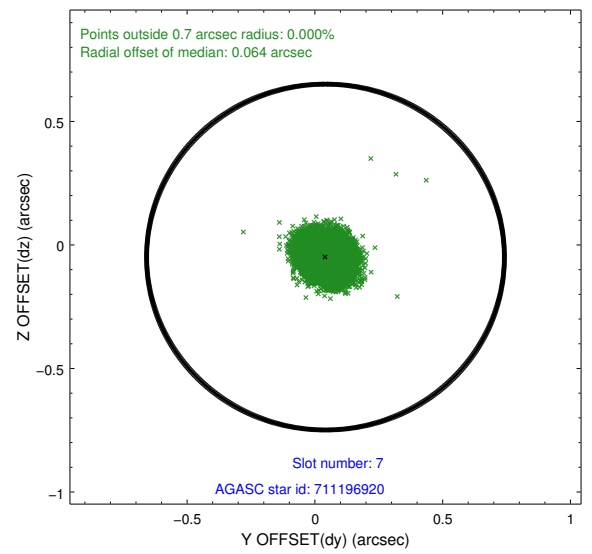
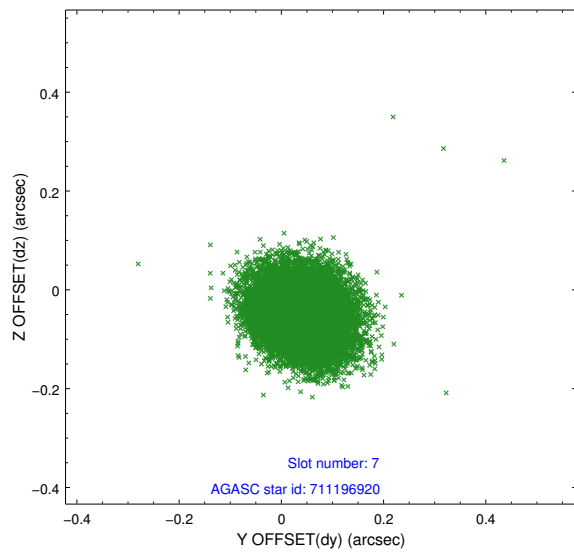
### 2.4.3 Slot 5



### 2.4.4 Slot 6

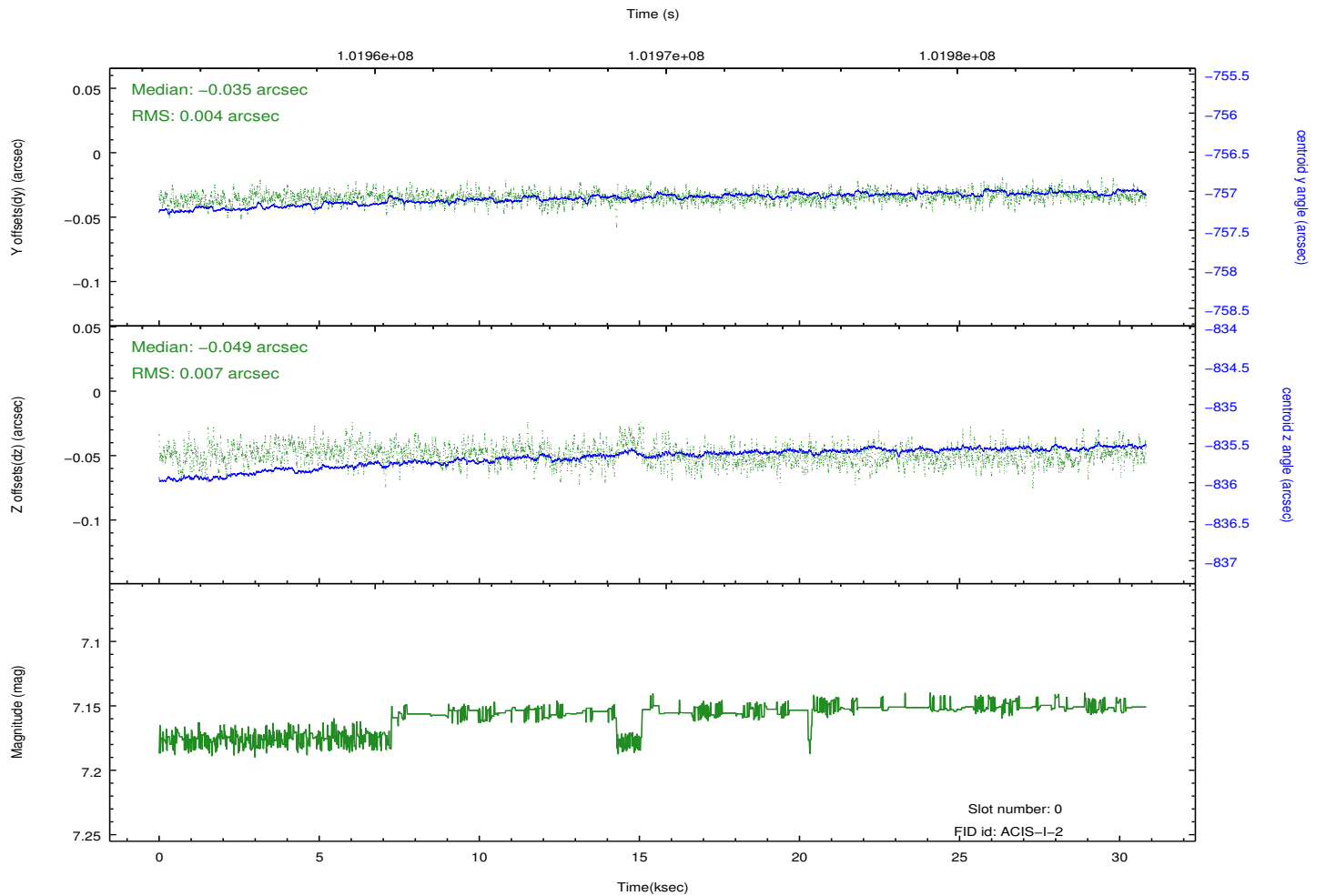
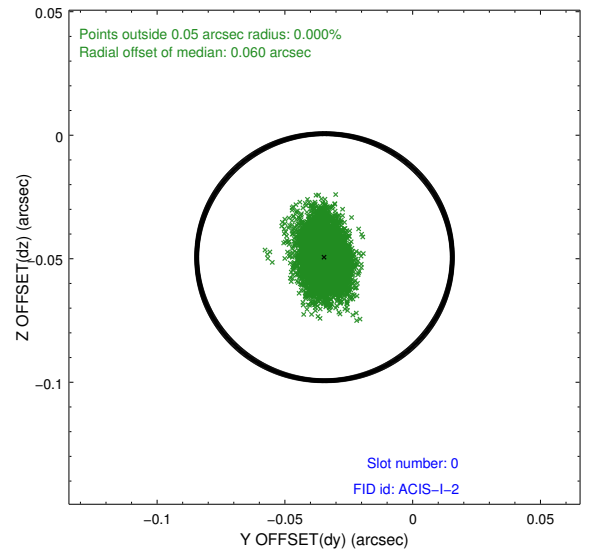
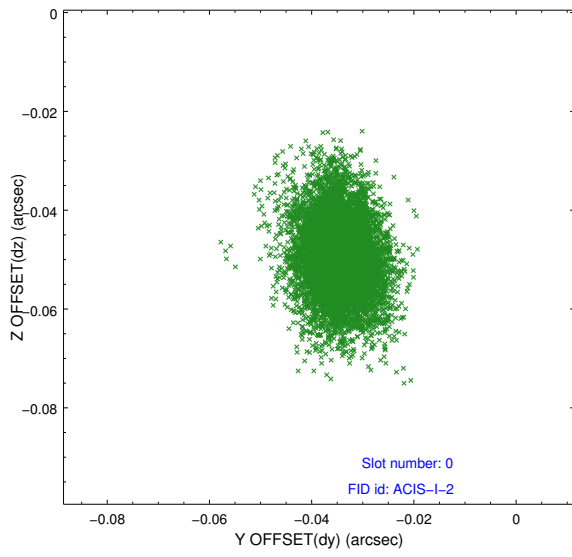


## 2.4.5 Slot 7

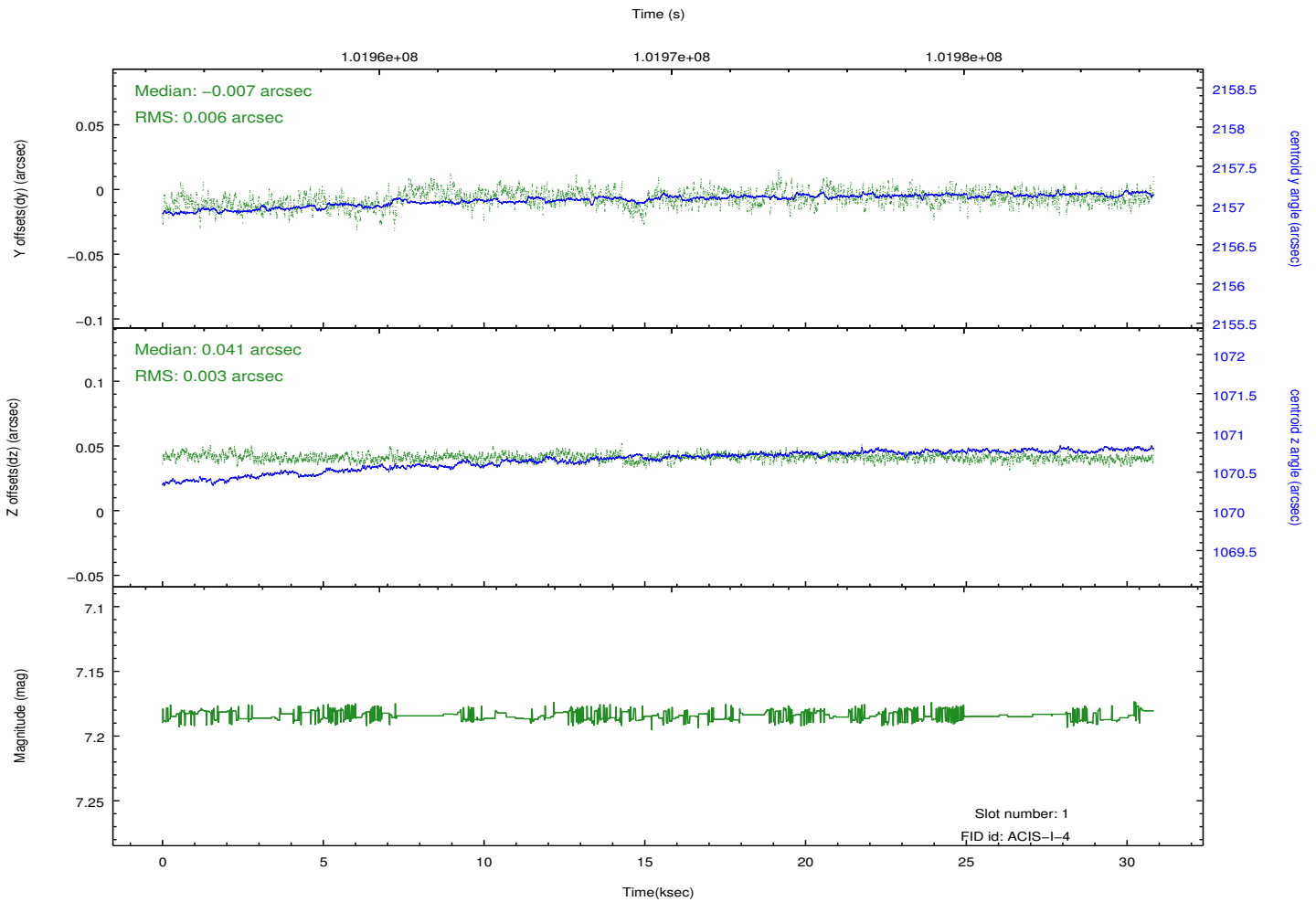
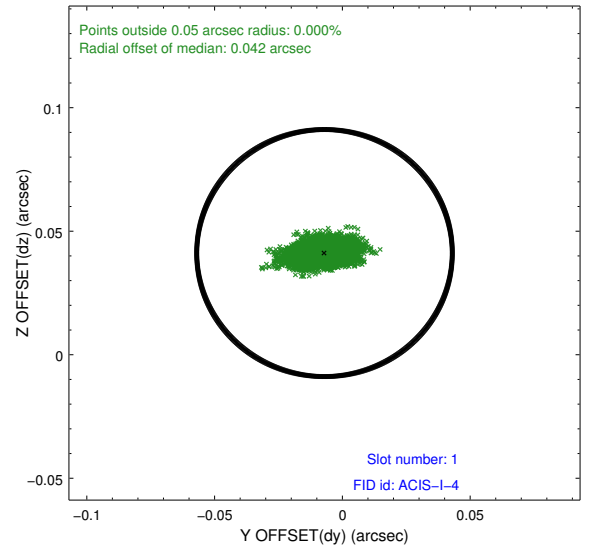
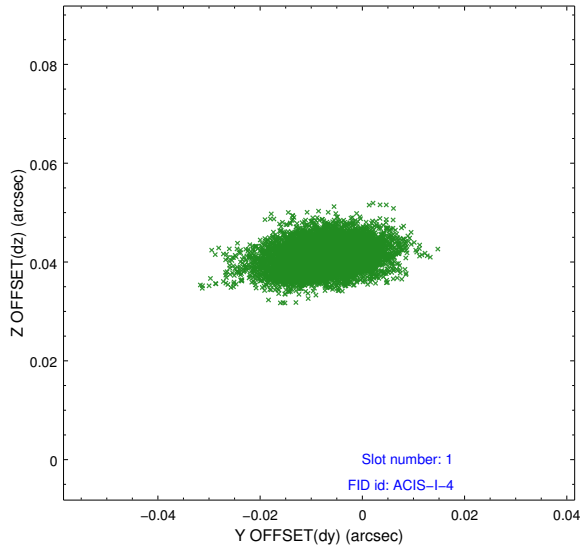


## 2.5 FID Slots

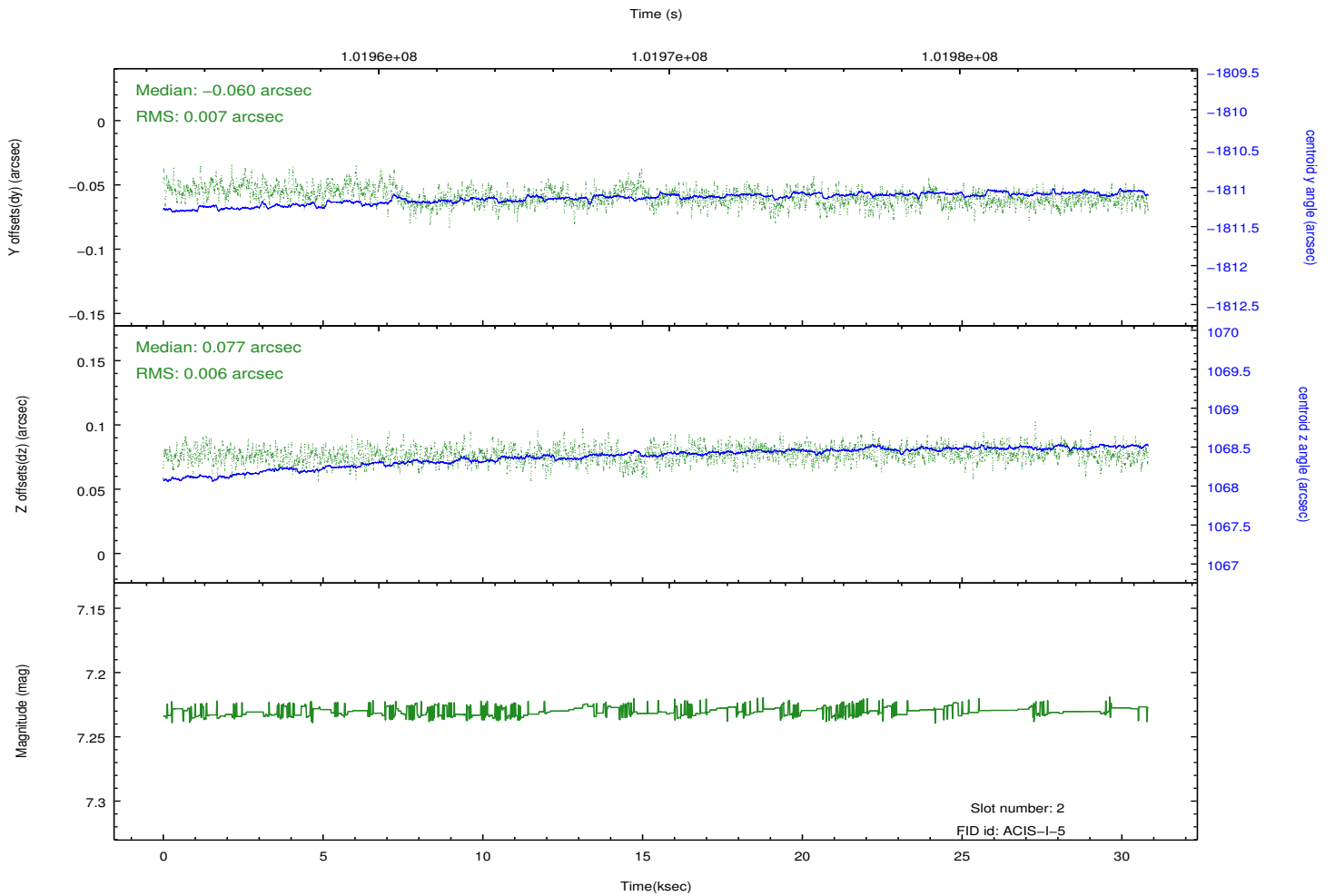
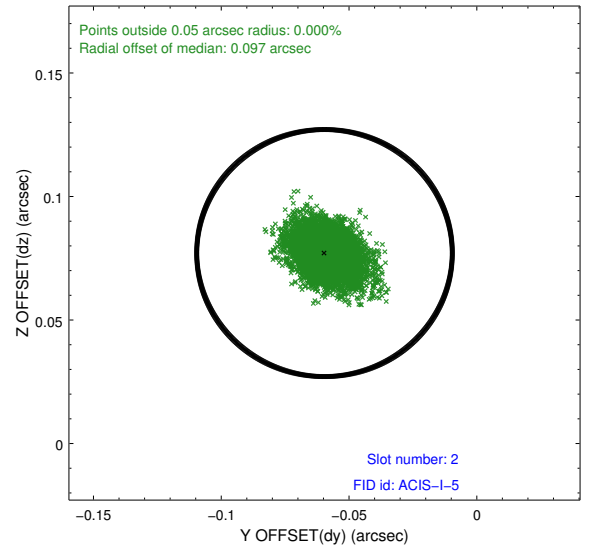
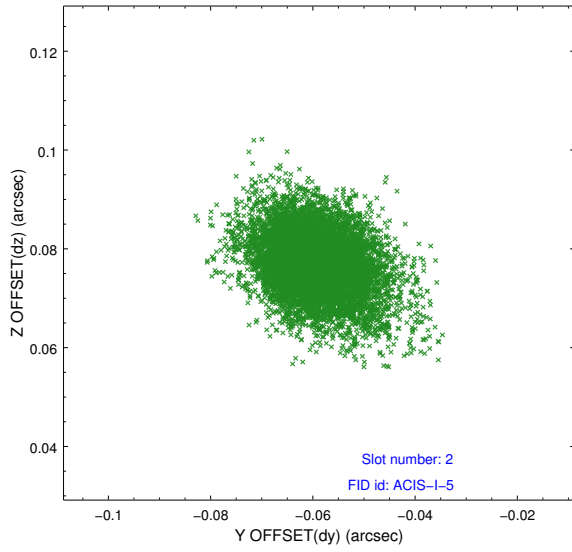
### 2.5.1 Slot 0



## 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)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.079

## A.2 Comments