

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8684 - L2 Version 2  
Chandra X-Ray Center

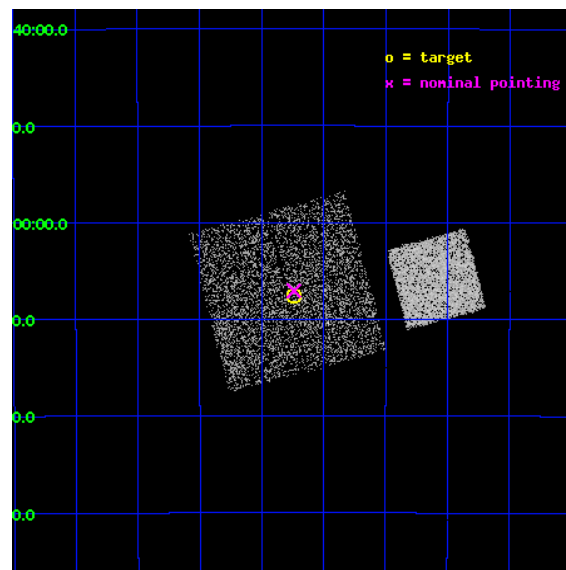
L2 Processing Date : May 15 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

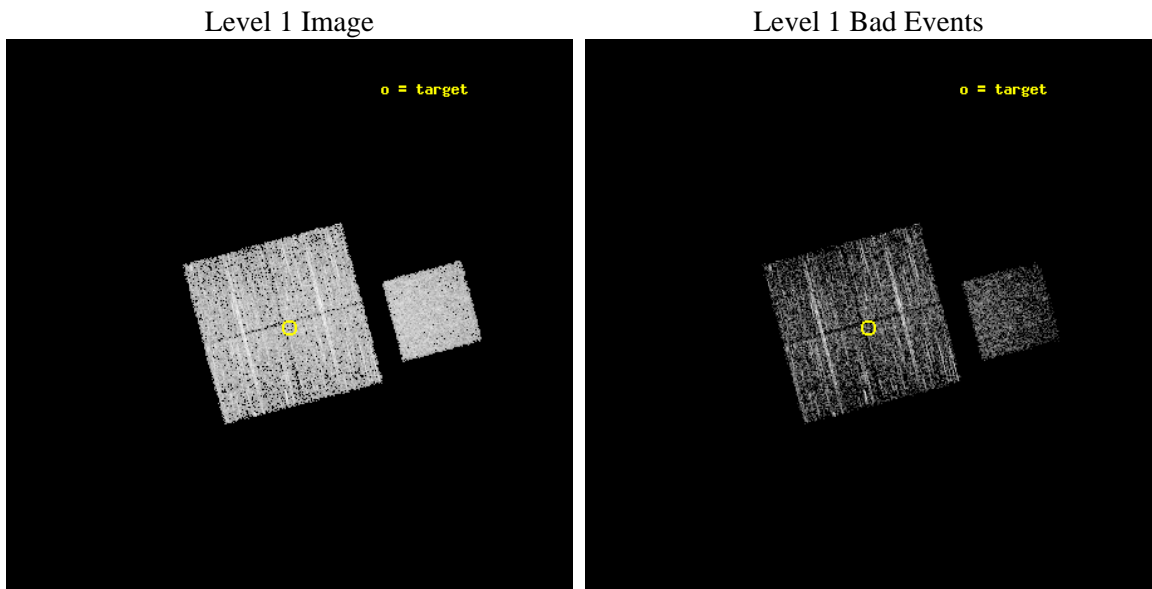
seq_num	400735	Sequence number
obs_id	8684	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.060586	Observer's specified target RA [deg]
dec_targ	-30.125979	Observer's specified target Dec [deg]
ra_nom	264.06007345747	Nominal RA [deg]
dec_nom	-30.117717346378	Nominal Dec [deg]
roll_nom	75.208597484897	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.2590065598	Sum of GTIs [s]
livetime	2150.785383292	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2179.2590065598	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2179.2590065598	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	15310	Number of level 2 events



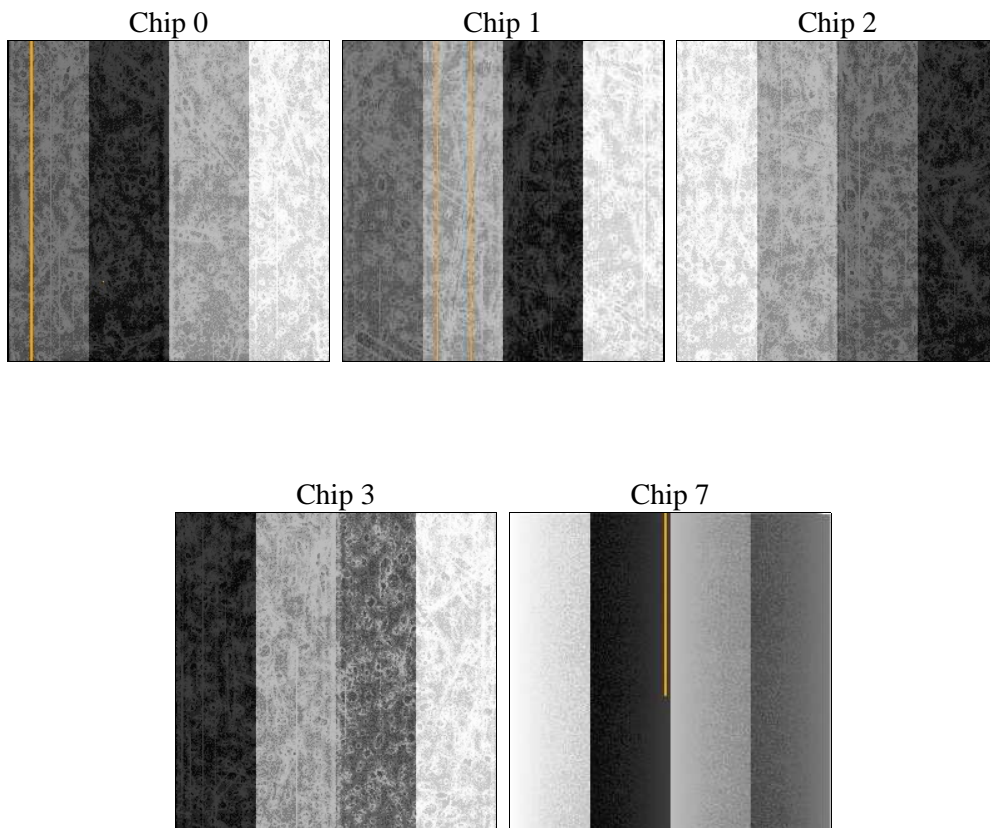
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2179.2590065598	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-15T14:54:03	Date and time of file creation	ontime1	2179.2590065598	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2179.2590065598	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	98187	Number of level 1 events

### 2.1.4 Events

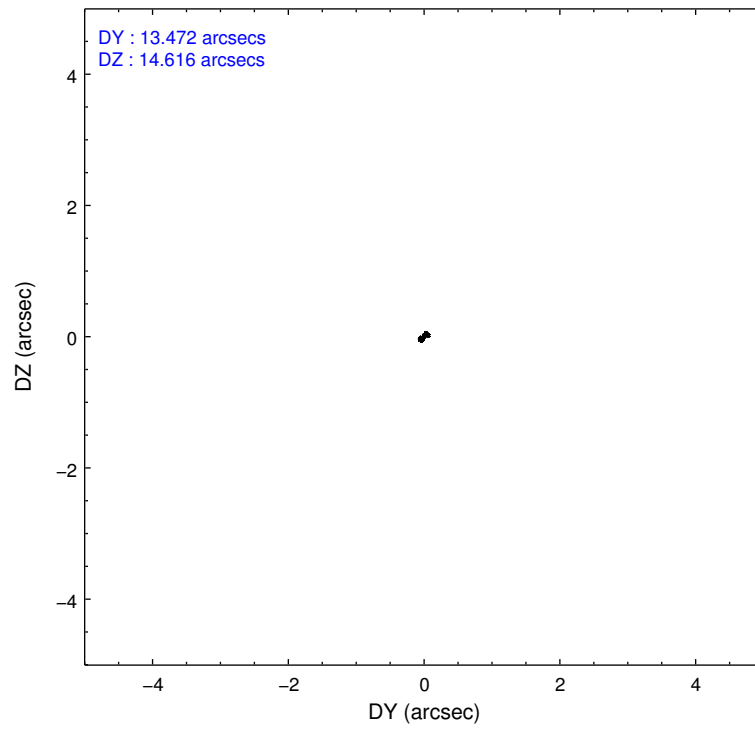
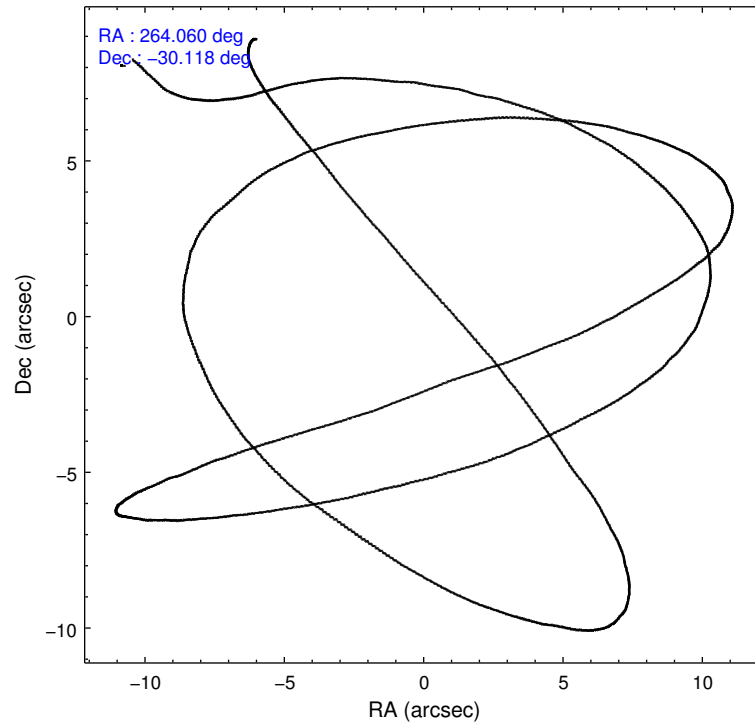
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17973	18789	20501	18762	22162
rejected events	16060	16656	18655	16858	13163
rejected %	89%	88%	90%	89%	59%

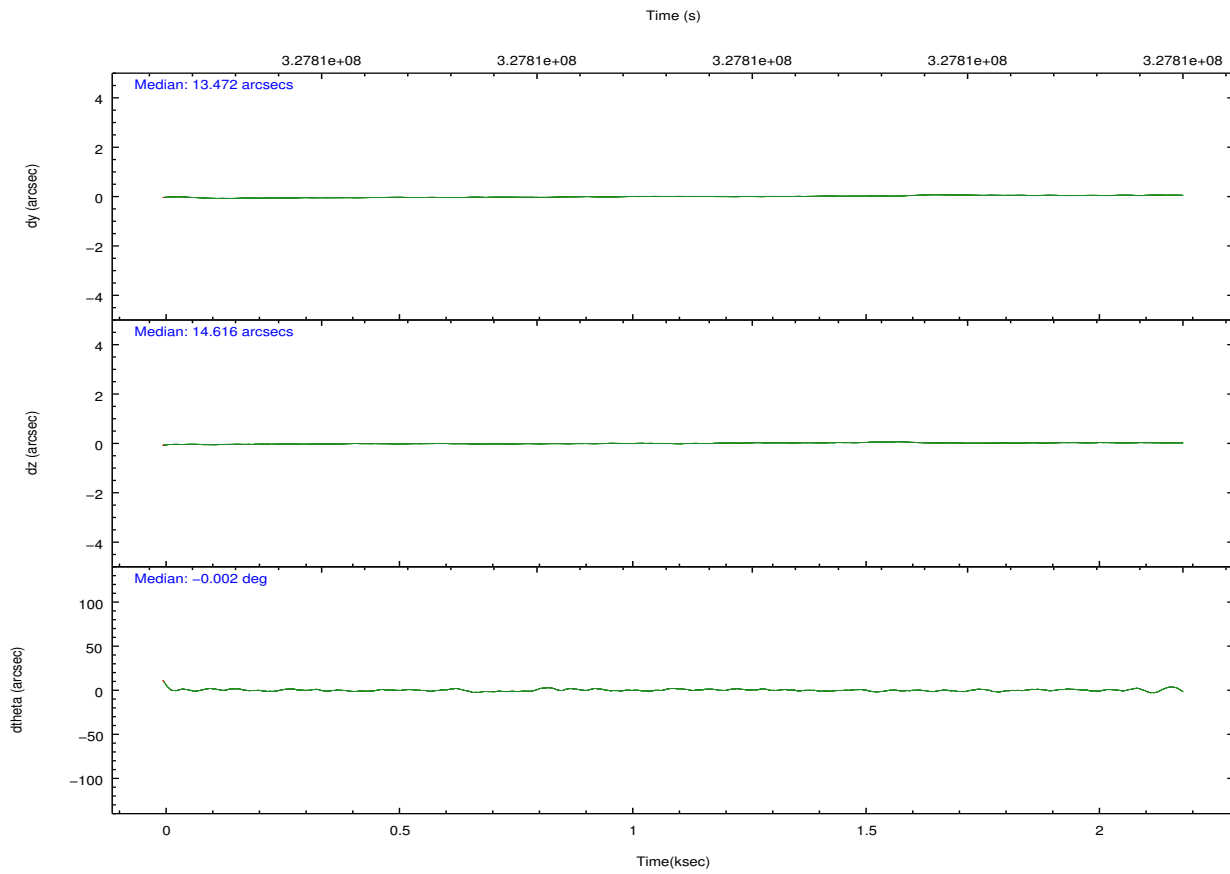
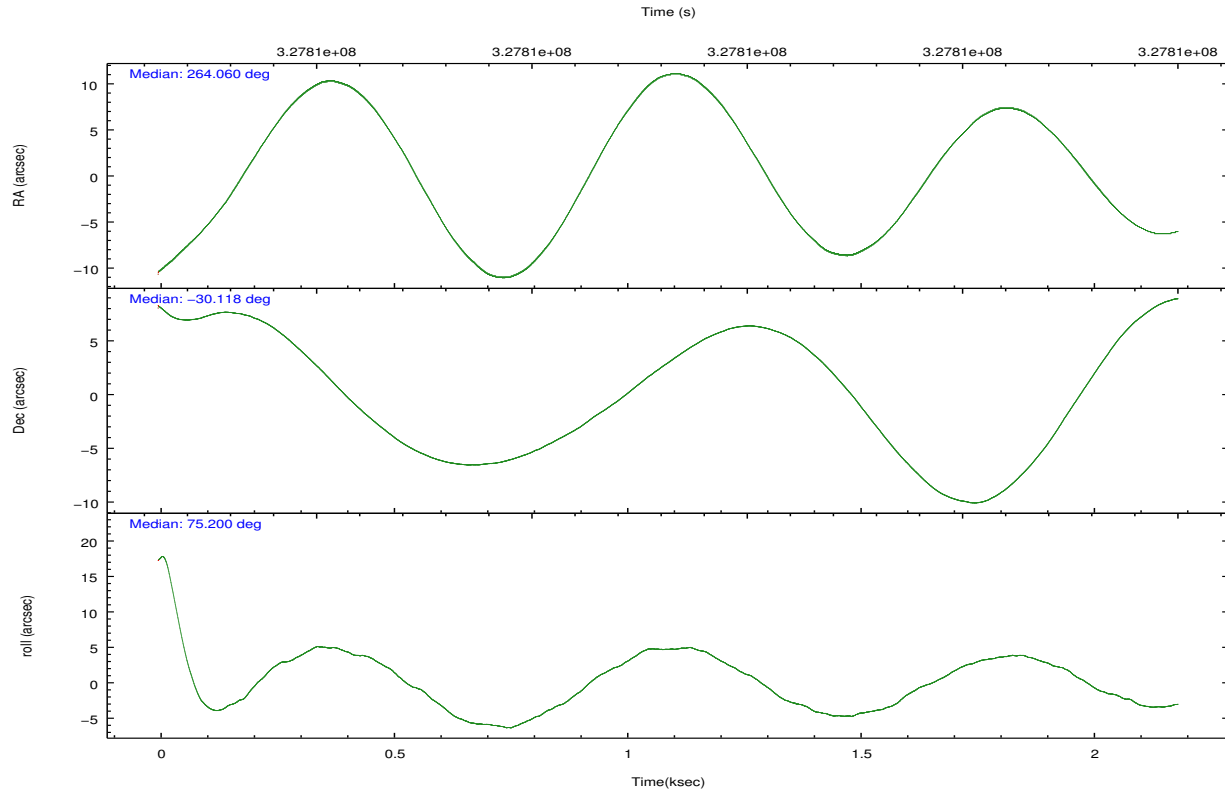
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	835	1057	887	983	997
	4%	5%	4%	5%	4%
grade 1 events	15	10	14	21	32
	0%	0%	0%	0%	0%
grade 2 events	533	511	470	475	2124
	2%	2%	2%	2%	9%
grade 3 events	231	249	211	192	1030
	1%	1%	1%	1%	4%
grade 4 events	229	223	221	228	938
	1%	1%	1%	1%	4%
grade 5 events	730	800	600	784	2324
	4%	4%	2%	4%	10%
grade 6 events	393	448	361	387	5320
	2%	2%	1%	2%	24%
grade 7 events	15007	15491	17737	15692	9397
	83%	82%	86%	83%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	264.068641	264.0600734574739	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.144403	-30.11771734637834	CCD I3 on	Y	Y
[deg] Pointing Roll	75.004050	75.20859748489677	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	N	N
[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)	327809908.184000	327808795.21206	CCD S5 on	N	N
Observation start date	2008-05-22T02:17:23	2008-05-22T01:59:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327811908.184000	327812042.41222	On-chip summing requested	N	N
Observation end date	2008-05-22T02:50:43	2008-05-22T02:54:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





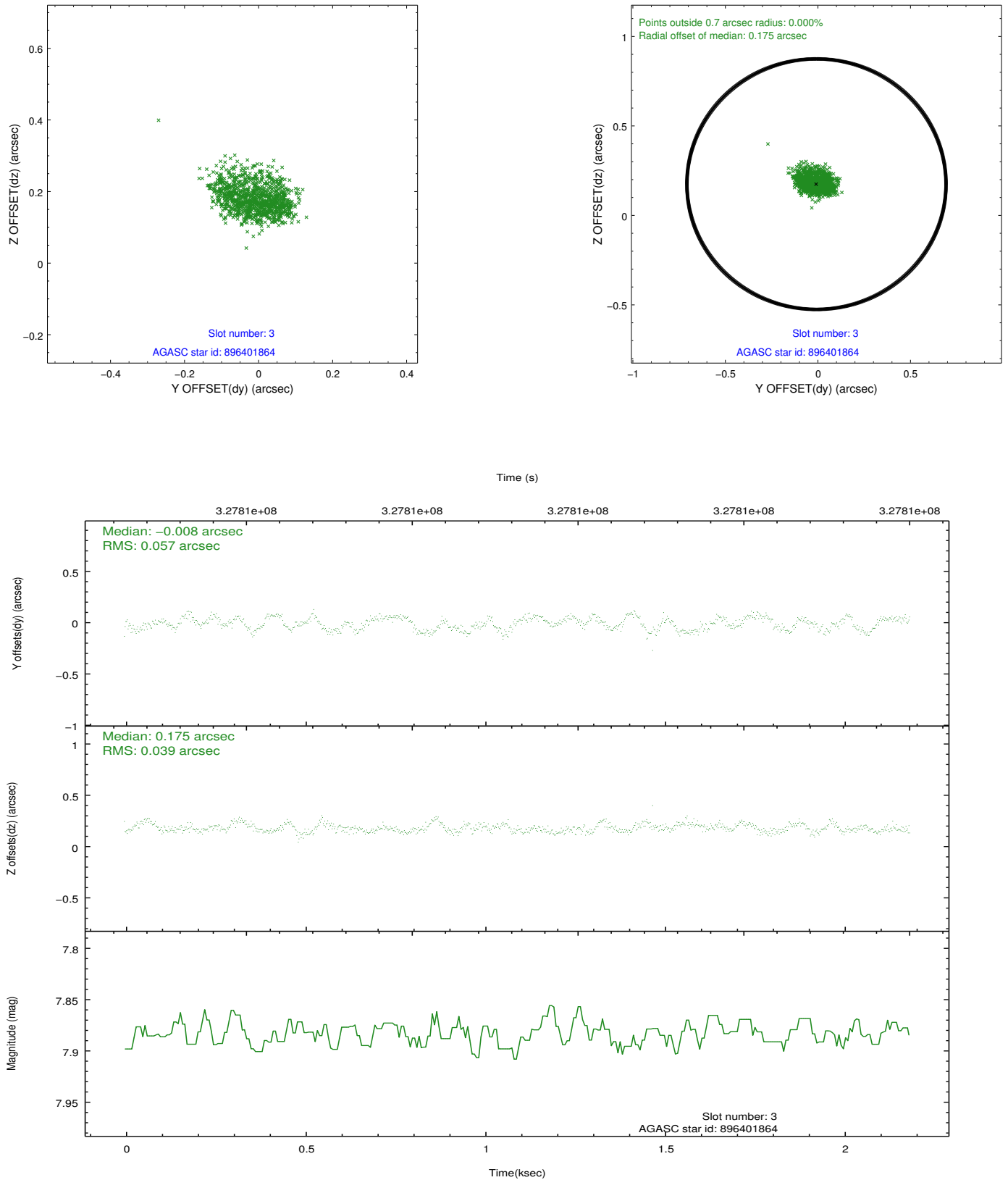
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	532	-0.050	0.067	0.009	0.017	0.000000	0.000000	925.98	-838.14
1	FID	ACIS-I-2	6.95	534	-0.145	-0.083	0.006	0.011	0.000000	0.000000	-766.55	-846.22
2	FID	ACIS-I-4	6.96	534	0.096	0.083	0.007	0.012	0.000000	0.000000	2144.65	1060.18
3	GUIDE	896401864	7.88	1067	-0.008	0.175	0.076	0.115	264.861768	-29.959752	1273.83	-2219.46
4	GUIDE	966787992	7.73	1065	0.037	-0.054	0.061	0.100	263.507229	-30.411177	-1382.25	1431.62
5	GUIDE	966791064	7.76	1067	-0.036	-0.179	0.048	0.078	263.920275	-30.338943	-797.83	264.92
6	GUIDE	966787912	8.20	1067	0.070	-0.130	0.060	0.098	263.385116	-30.640247	-2279.56	1581.28
7	GUIDE	966790696	8.40	1066	-0.065	0.185	0.073	0.119	264.462516	-30.909486	-2350.15	-1887.24

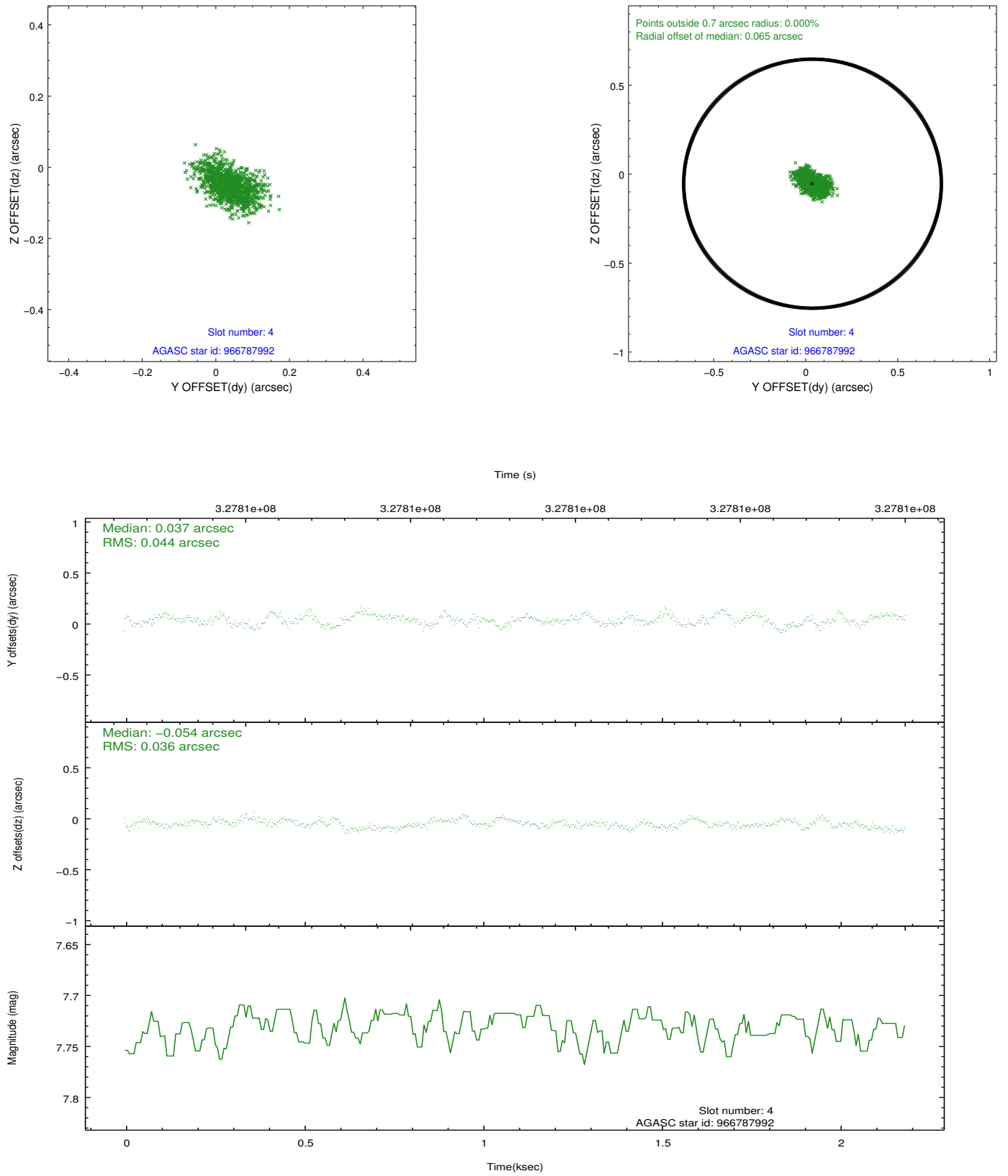


## 2.4 Star Slots

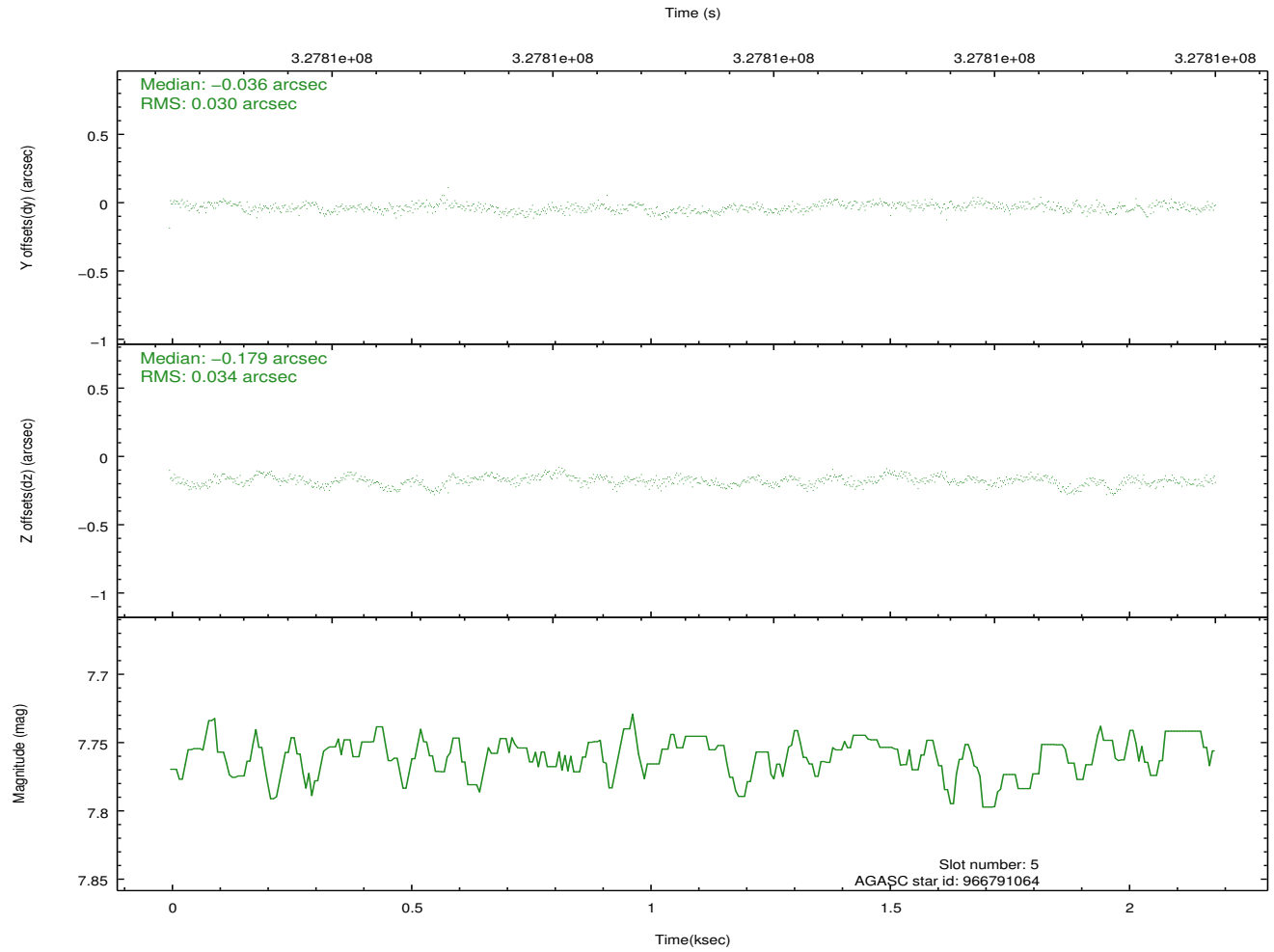
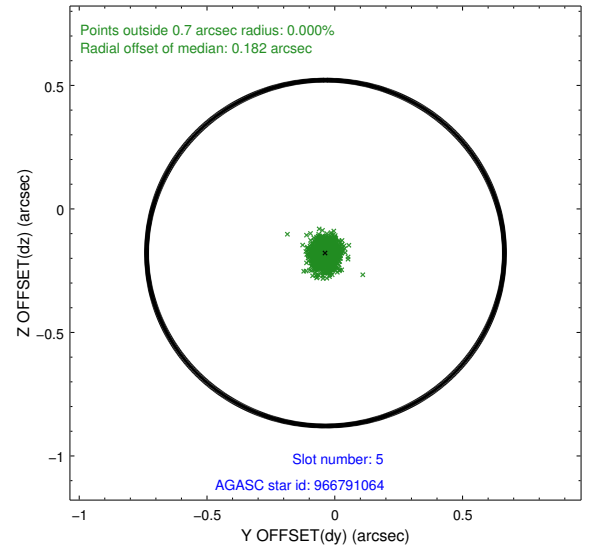
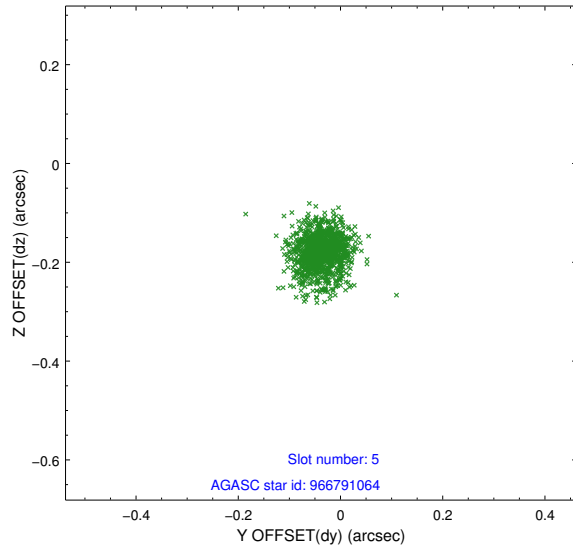
### 2.4.1 Slot 3



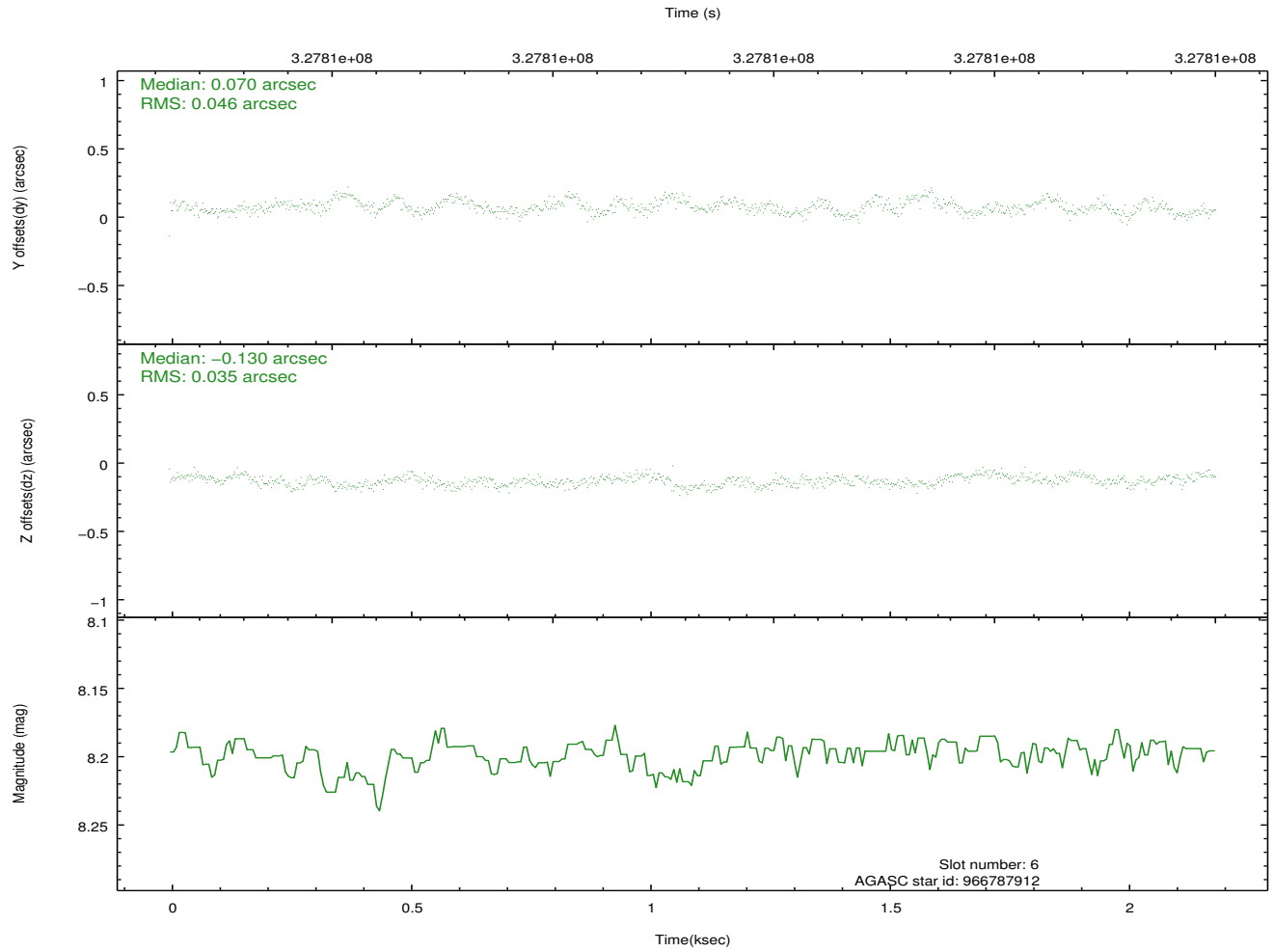
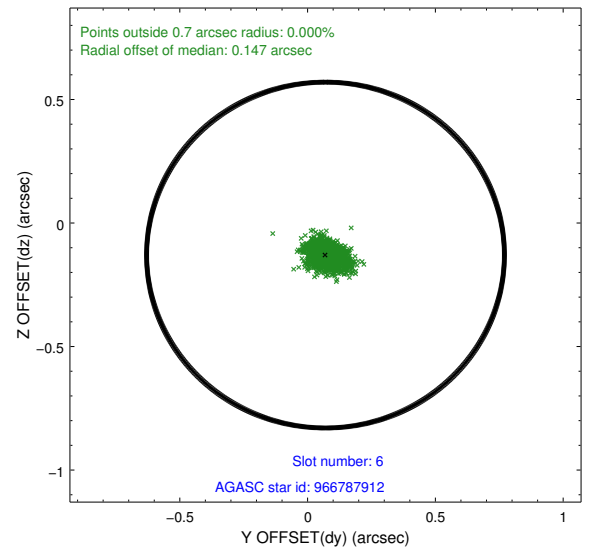
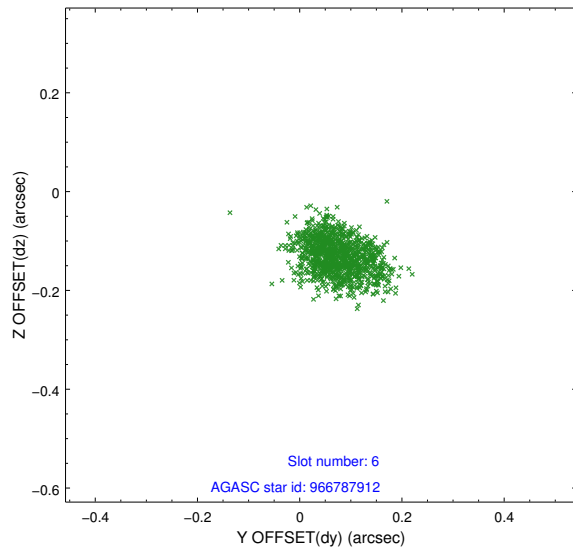
## 2.4.2 Slot 4



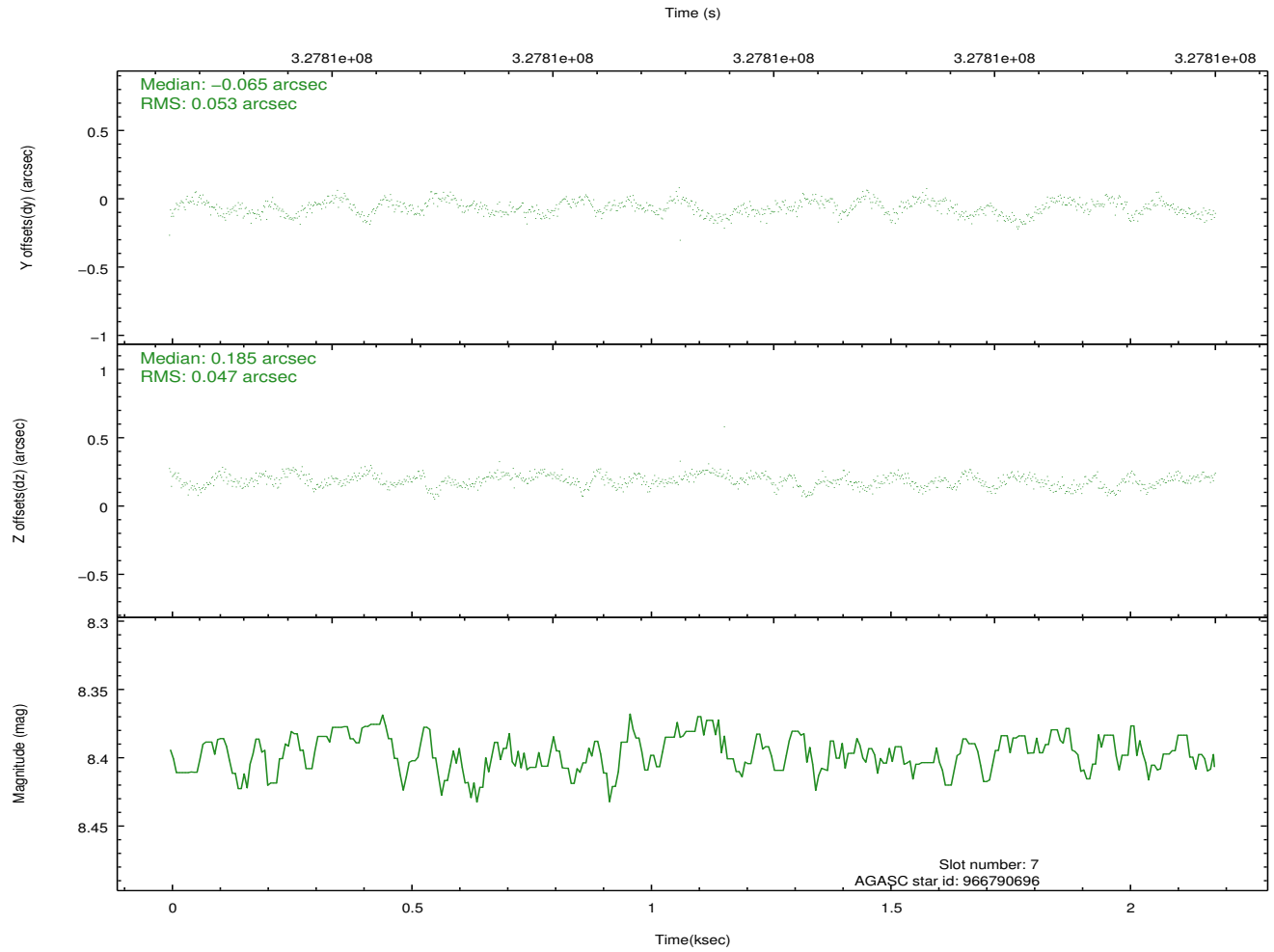
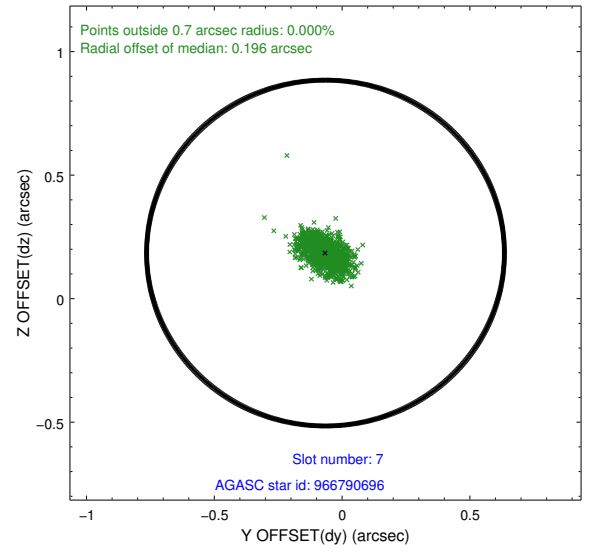
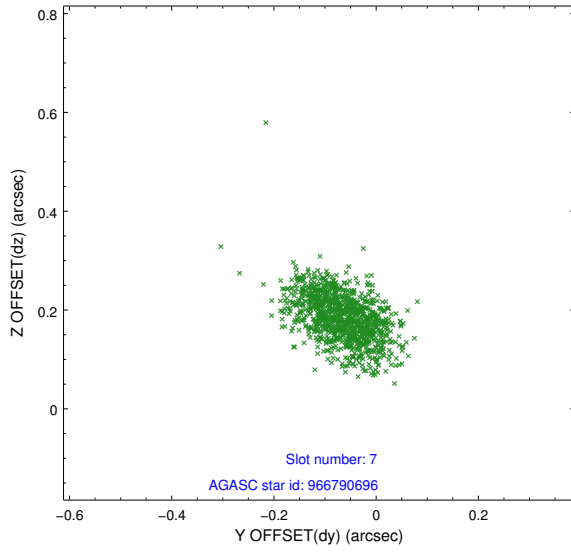
### 2.4.3 Slot 5



## 2.4.4 Slot 6

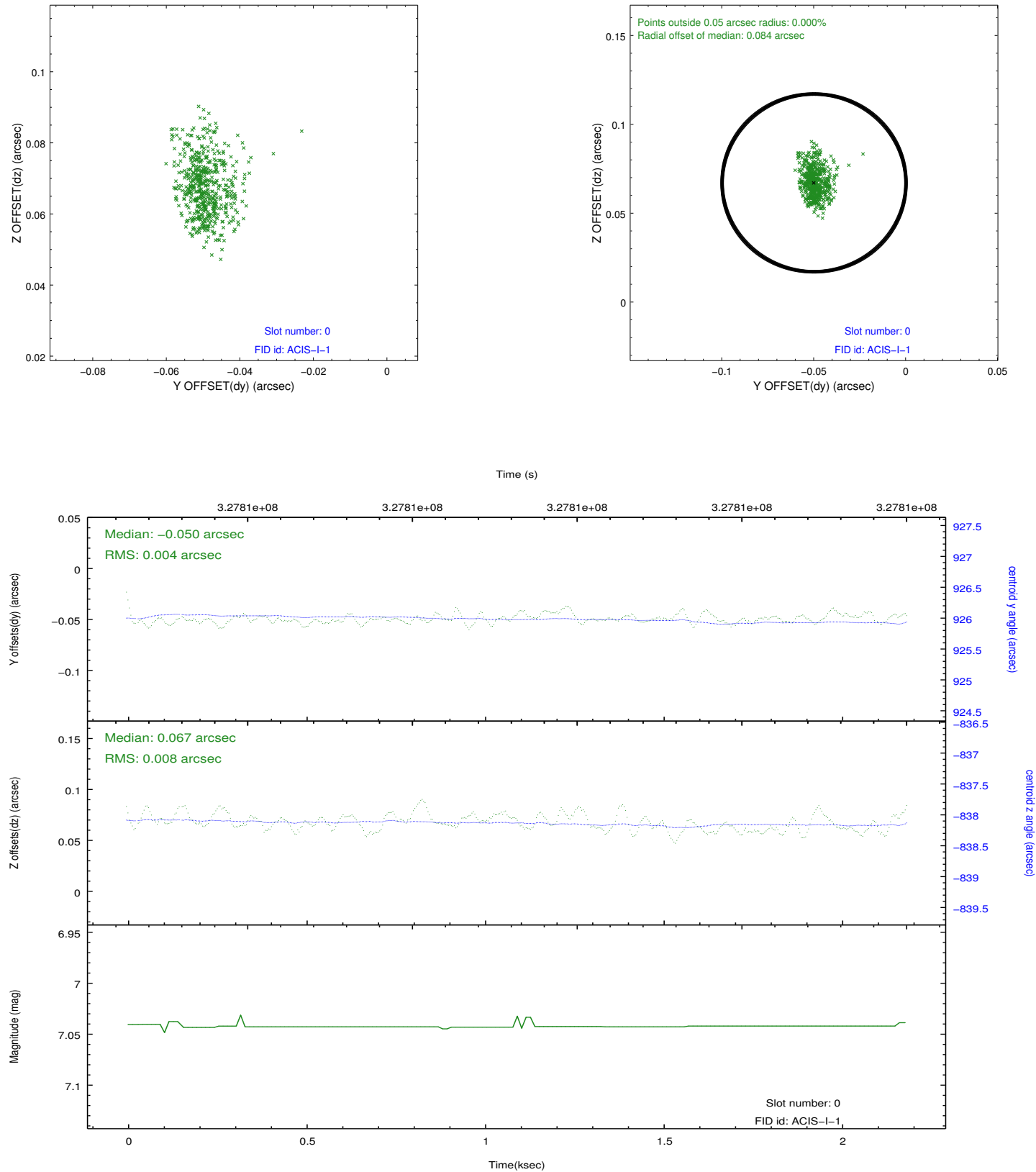


## 2.4.5 Slot 7

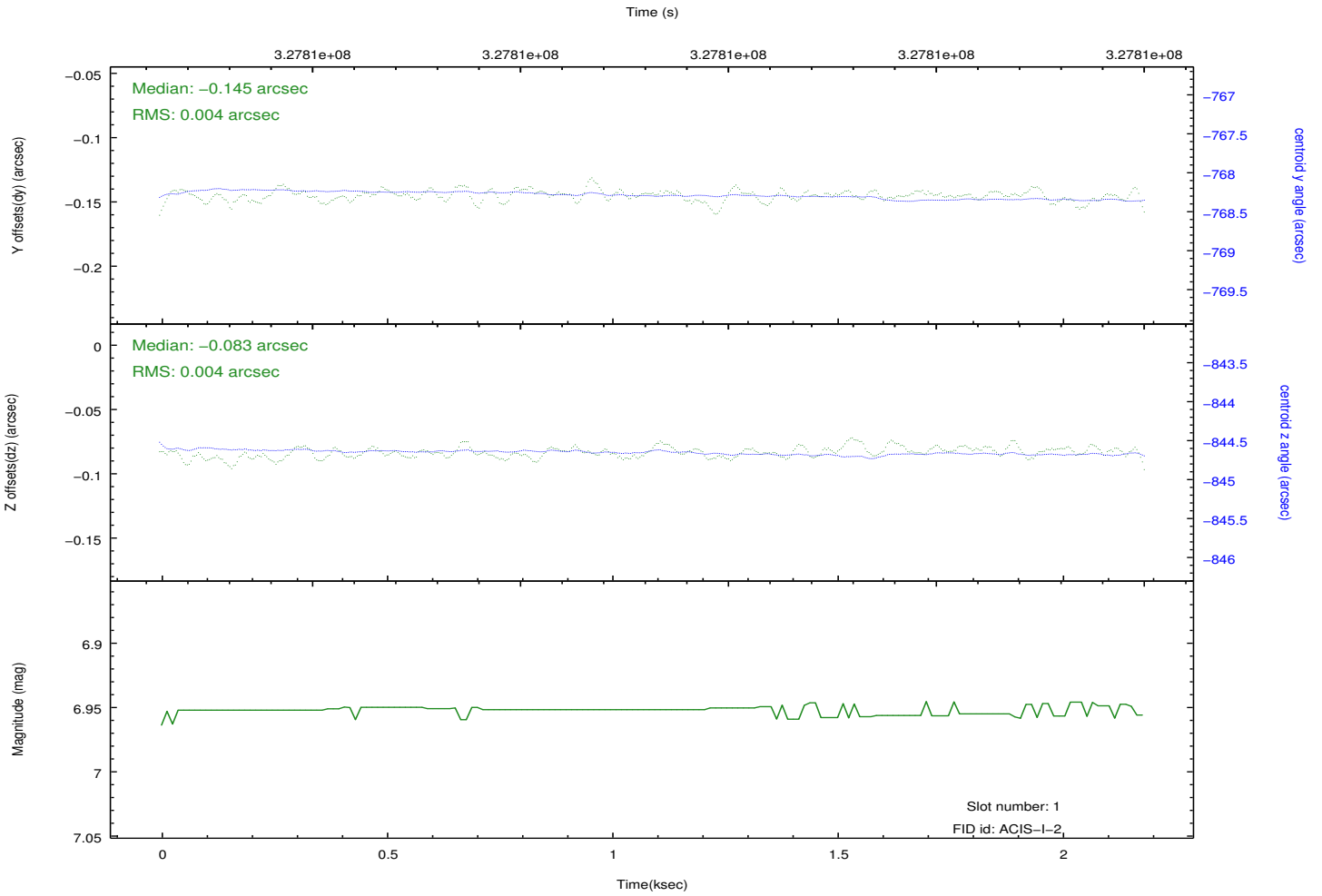
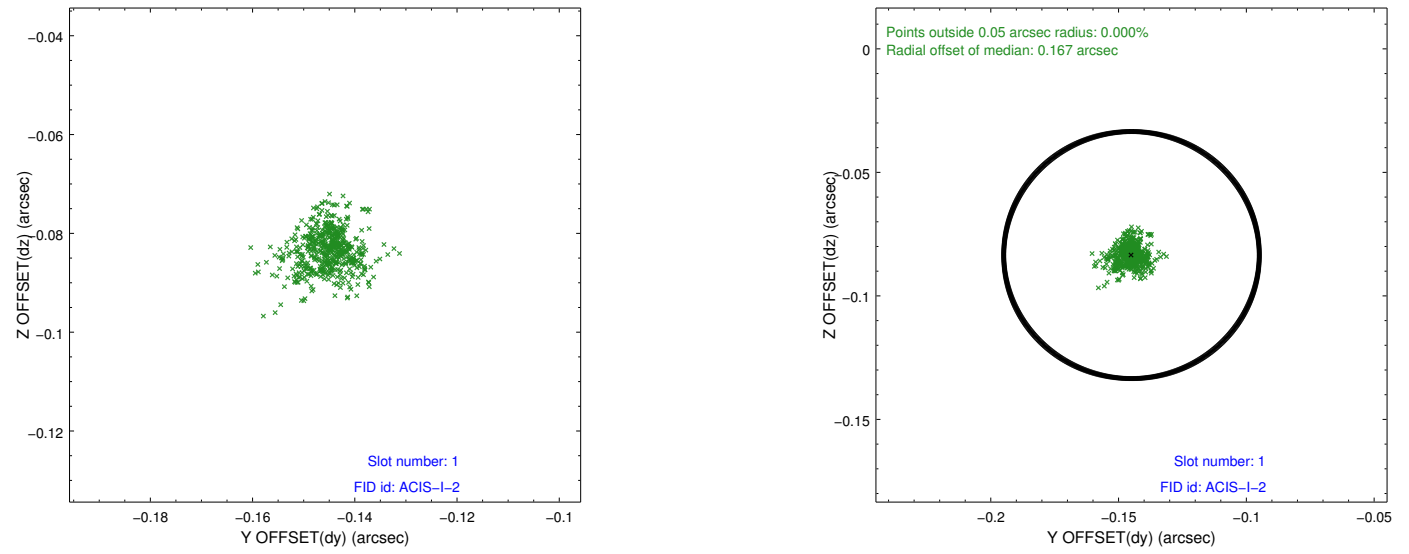


## 2.5 FID Slots

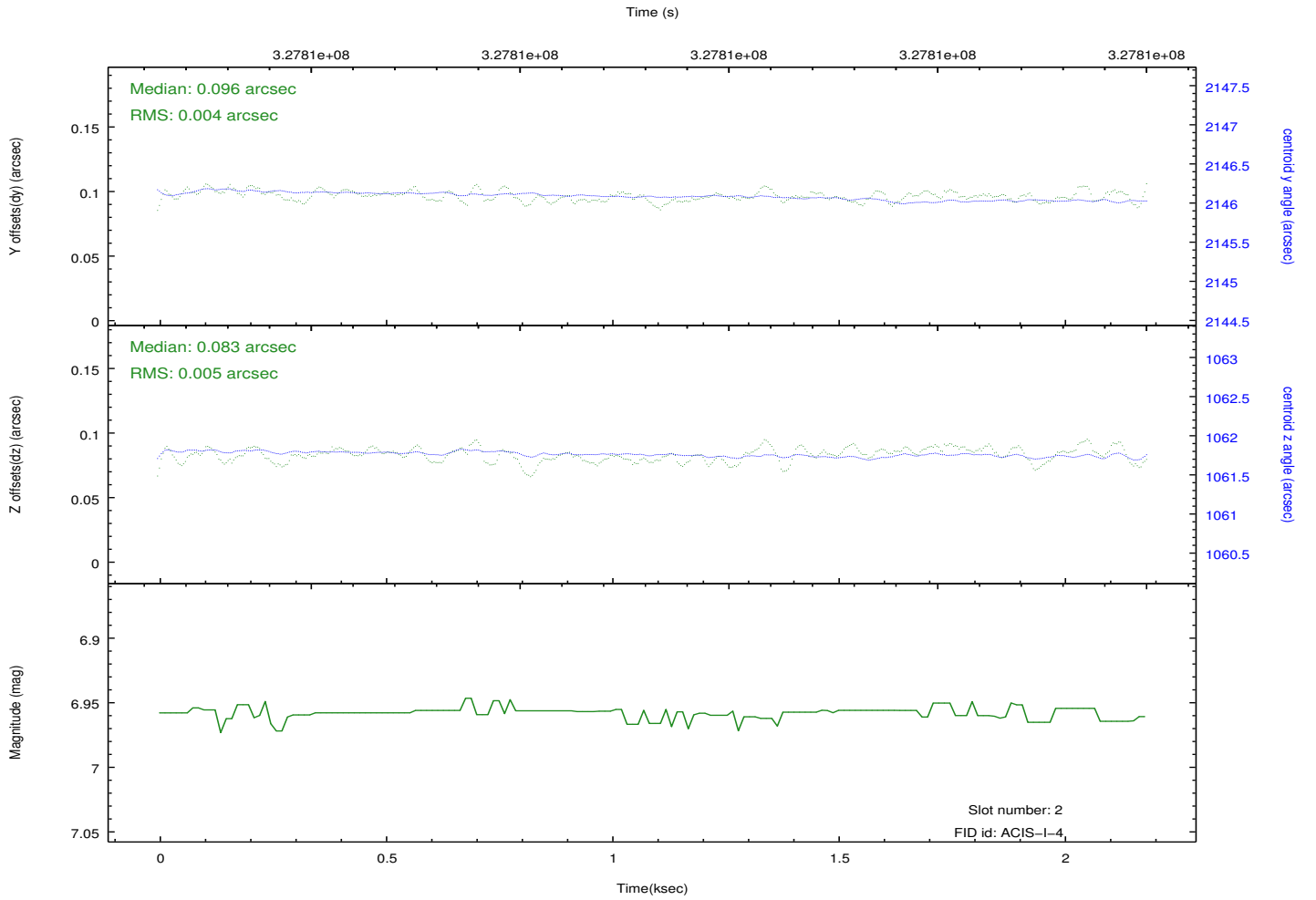
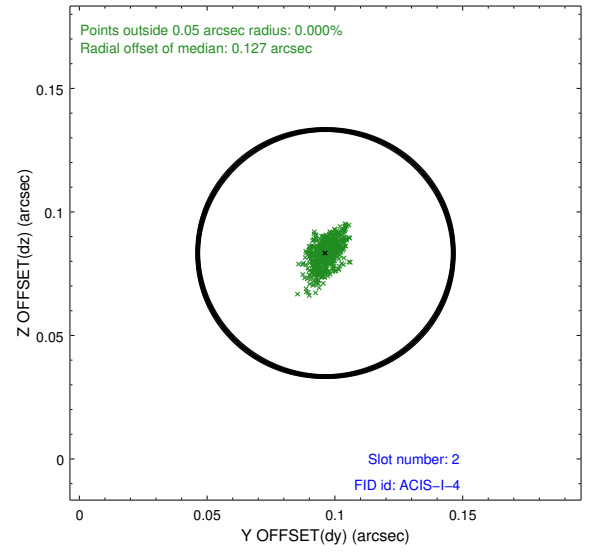
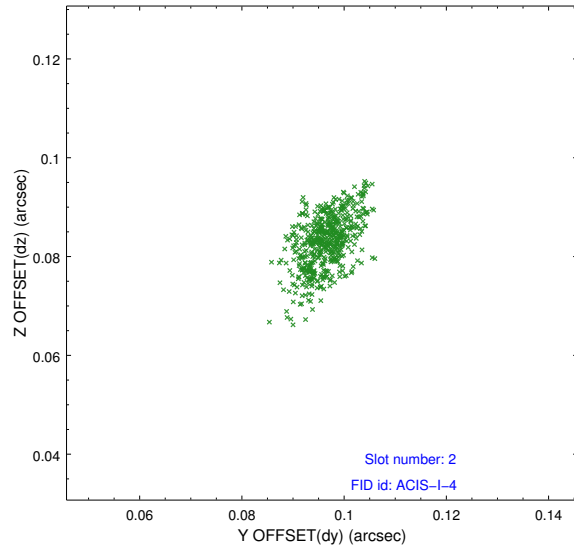
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.179259

### A.2 Comments