

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 14390 - L2 Version 1  
Chandra X-Ray Center

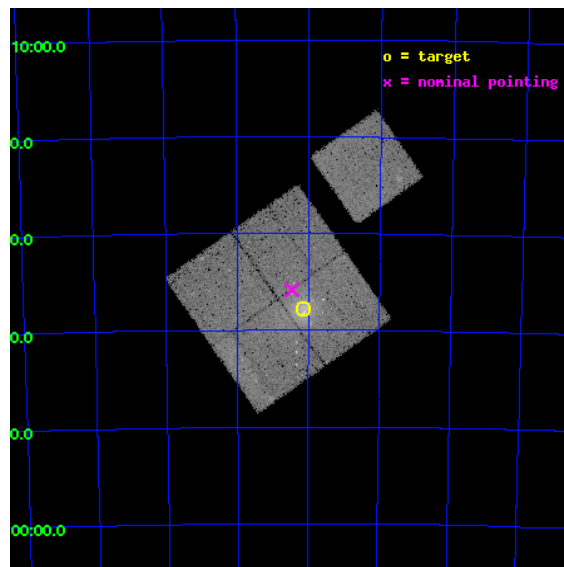
L2 Processing Date : Aug 7 2012

## 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

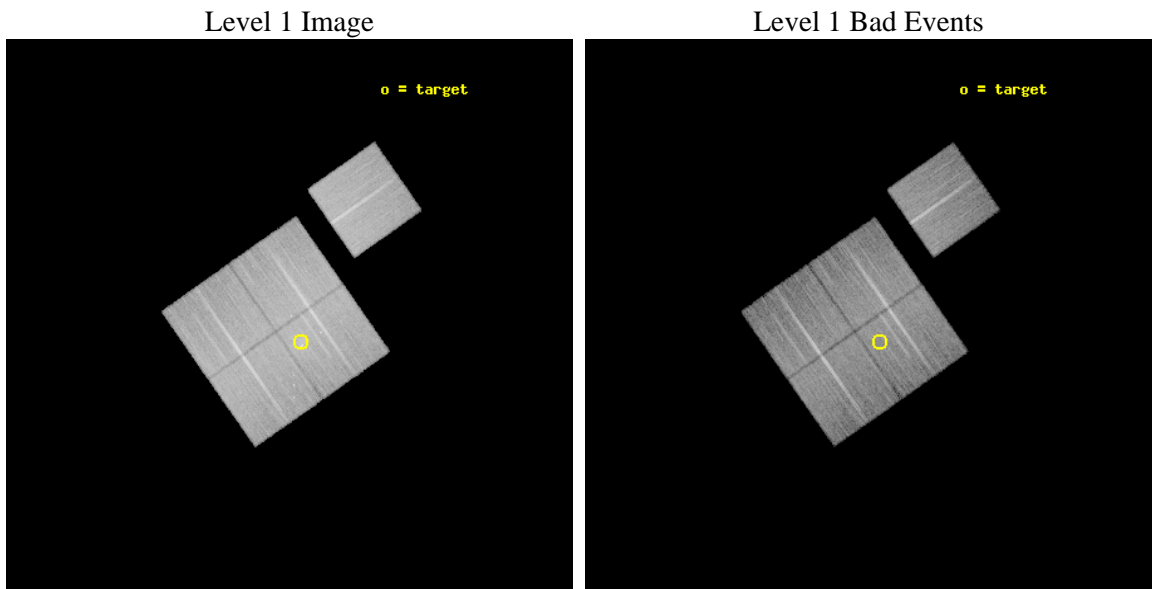
seq_num	801215	Sequence number
obs_id	14390	Observation id
title	Characterizing the Most Massive Clusters in the Local Universe - B	&#160
observer	Dr. Stephen Murray	Principal investigator
object	G304.84-41.42	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.0362	Observer's specified target RA [deg]
dec_targ	-75.6294	Observer's specified target Dec [deg]
ra_nom	7.1157689739755	Nominal RA [deg]
dec_nom	-75.597186513828	Nominal Dec [deg]
roll_nom	55.024189001052	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37770.400290489	Sum of GTIs [s]
liveltime	37276.90220453	Livetime [s]
ontime0	37760.977259636	Sum of GTIs [s]
ontime1	37767.259280264	Sum of GTIs [s]
ontime2	37770.400290489	Sum of GTIs [s]
ontime3	37770.400290489	Sum of GTIs [s]
ontime6	37770.400290489	Sum of GTIs [s]
l2events	107406	Number of level 2 events



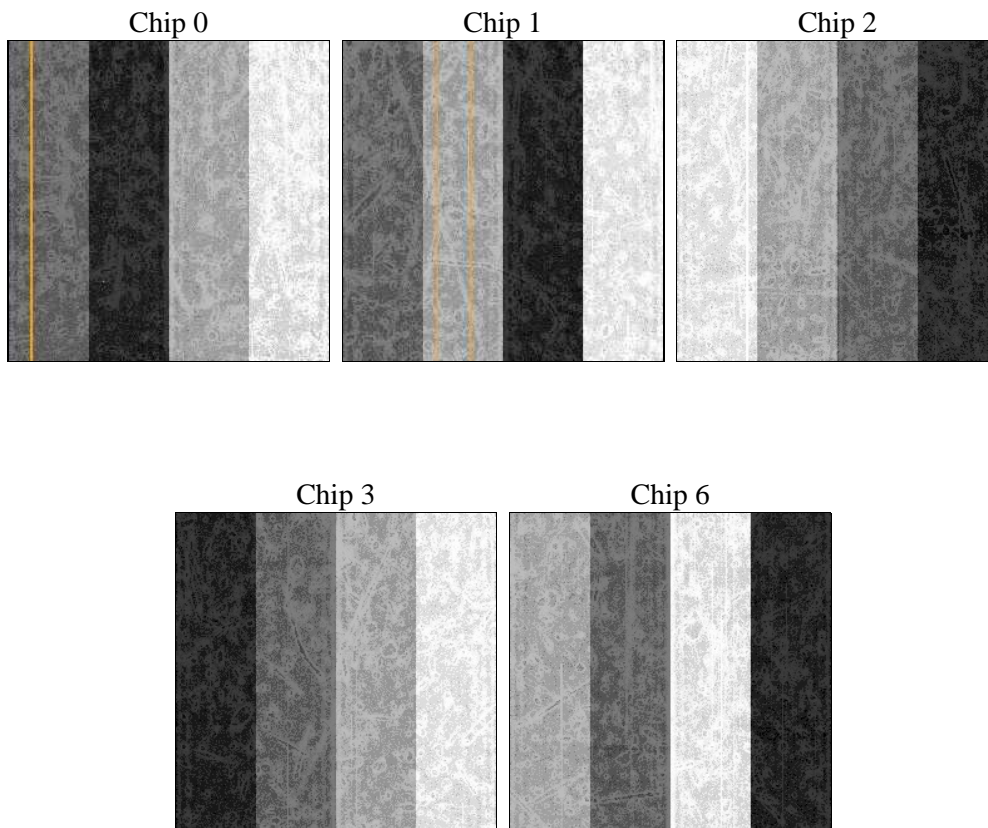
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	37770.400290489	Sum of GTIs [s]
caldbver	4.5.1	&#160	ontime0	37760.977259636	Sum of GTIs [s]
date	2012-08-07T16:21:53	Date and time of file creation	ontime1	37767.259280264	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	37770.400290489	Sum of GTIs [s]
			ontime3	37770.400290489	Sum of GTIs [s]
			ontime6	37770.400290489	Sum of GTIs [s]
			l1events	922284	Number of level 1 events

### 2.1.4 Events

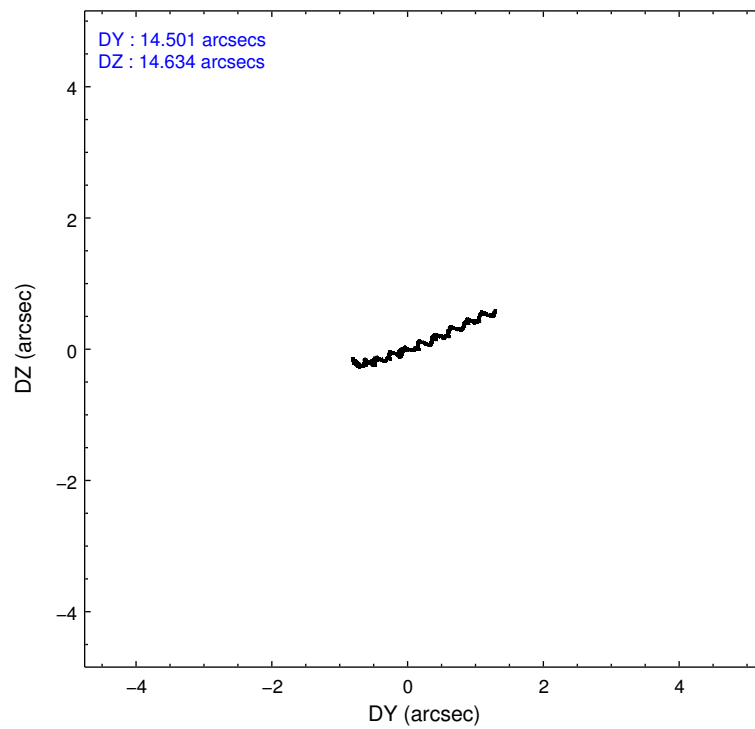
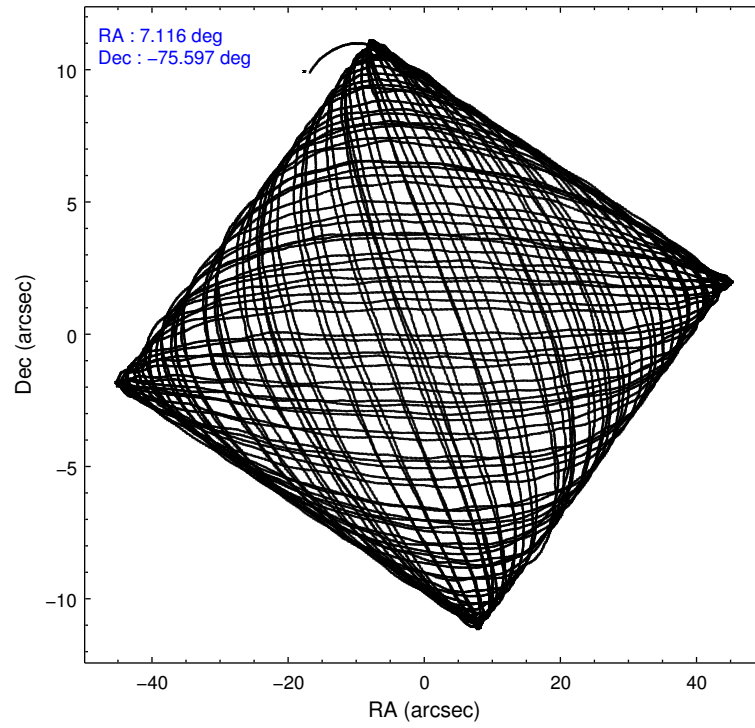
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	172194	180025	188274	191875	189916
rejected events	149616	153128	165765	161668	166873
rejected %	86%	85%	88%	84%	87%

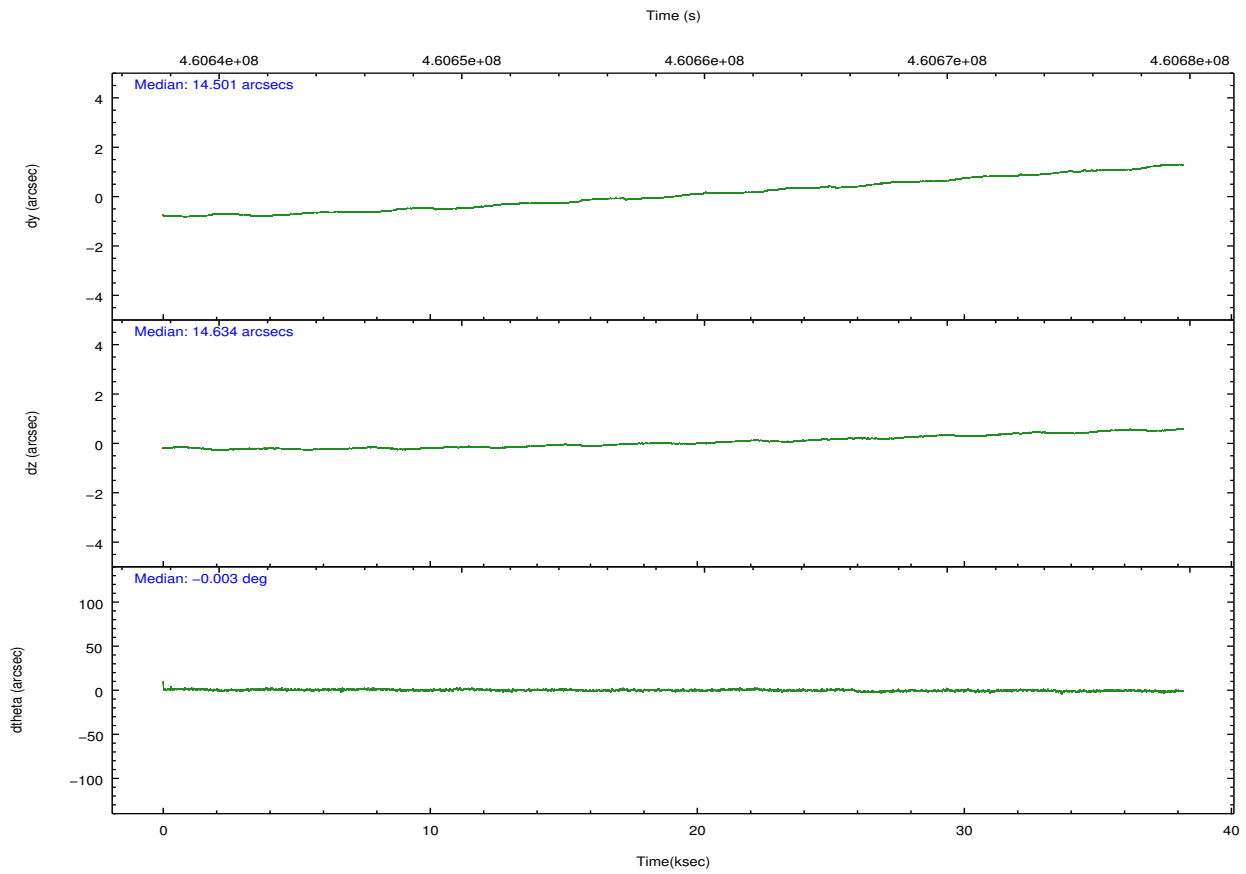
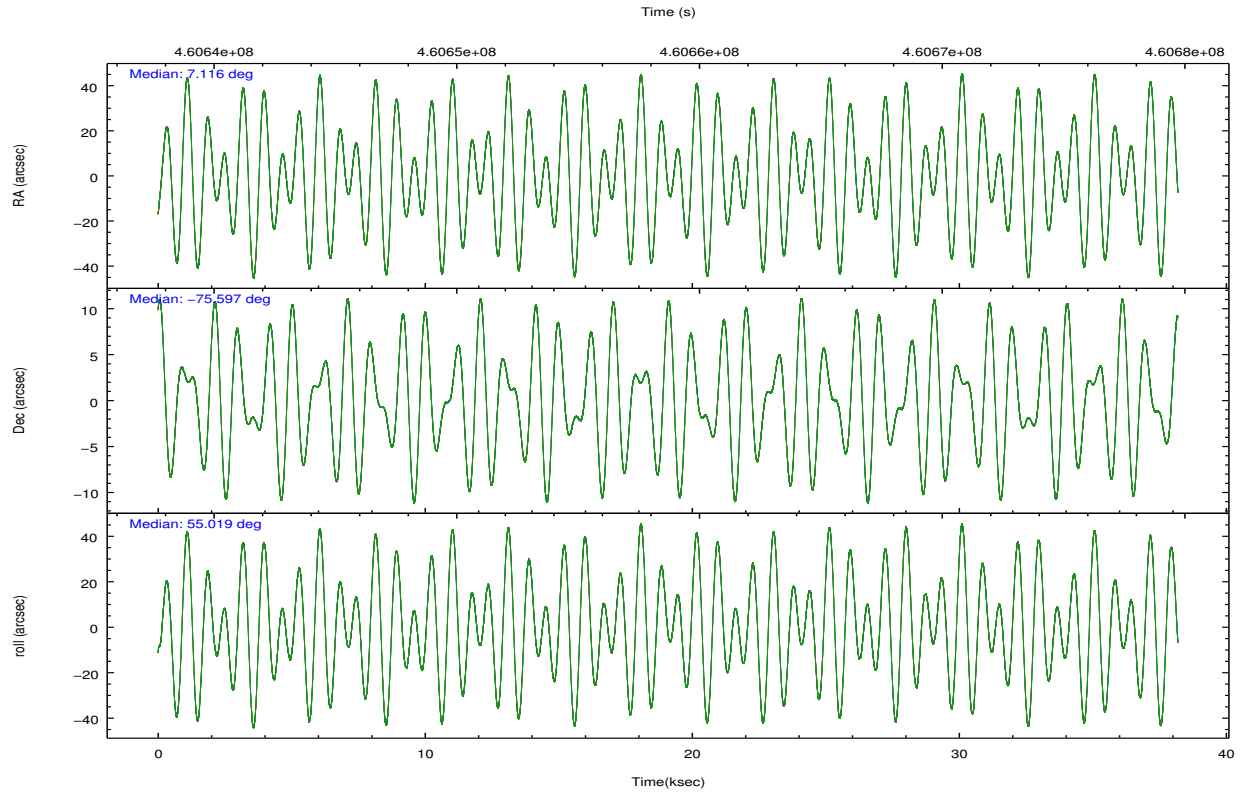
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7915	10415	8351	14750	8057
	4%	5%	4%	7%	4%
grade 1 events	104	121	104	140	106
	0%	0%	0%	0%	0%
grade 2 events	5458	6171	5336	5733	4986
	3%	3%	2%	2%	2%
grade 3 events	2419	2530	2278	2541	2378
	1%	1%	1%	1%	1%
grade 4 events	2118	2497	2226	2487	2318
	1%	1%	1%	1%	1%
grade 5 events	8920	9544	8675	10286	9504
	5%	5%	4%	5%	5%
grade 6 events	4669	5289	4325	4703	5306
	2%	2%	2%	2%	2%
grade 7 events	140591	143458	156979	151235	157261
	81%	79%	83%	78%	82%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	7.106580	7.115768973975548	CCD I2 on	Y	Y
[deg] Pointing Dec	-75.624579	-75.59718651382796	CCD I3 on	Y	Y
[deg] Pointing Roll	54.806606	55.02418900105155	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	O1	Y
[mm] SIM translation stage pos	-230.592463	-230.5903706213692	CCD S3 on	N	N
[mm] SIM translation stage offset	-3	-3.002082381560513	CCD S4 on	N	N
[s] Observation start time (MET)	460639801.184000	460639045.74442	CCD S5 on	N	N
Observation start date	2012-08-06T11:28:54	2012-08-06T11:17:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	460677801.184000	460678686.59654	On-chip summing requested	N	N
Observation end date	2012-08-06T22:02:14	2012-08-06T22:18:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



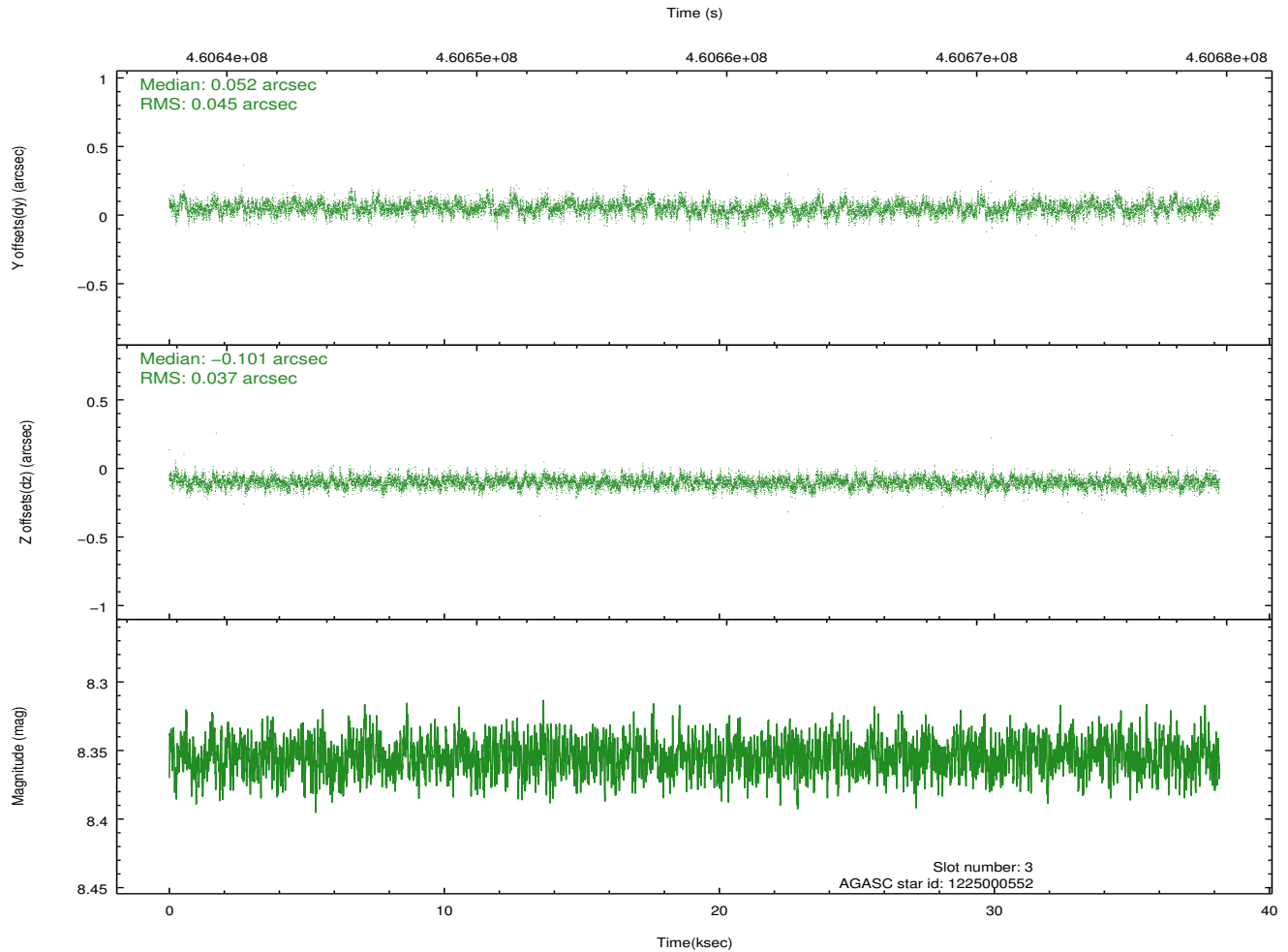
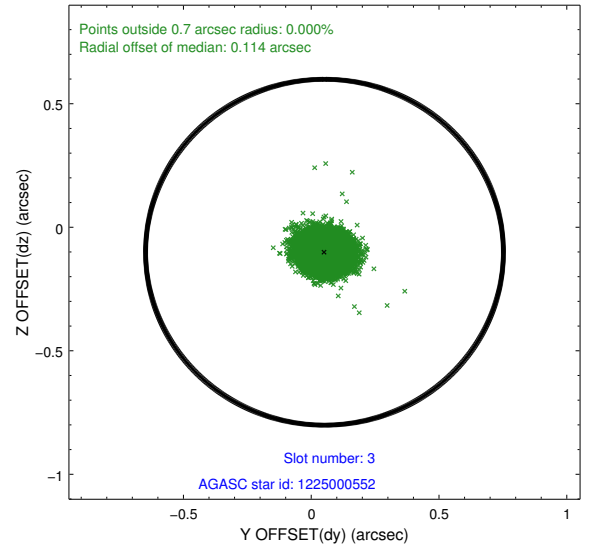
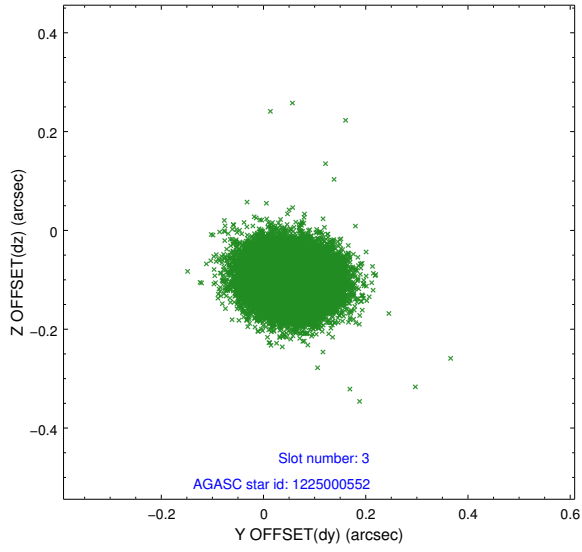


### Slot Statistics

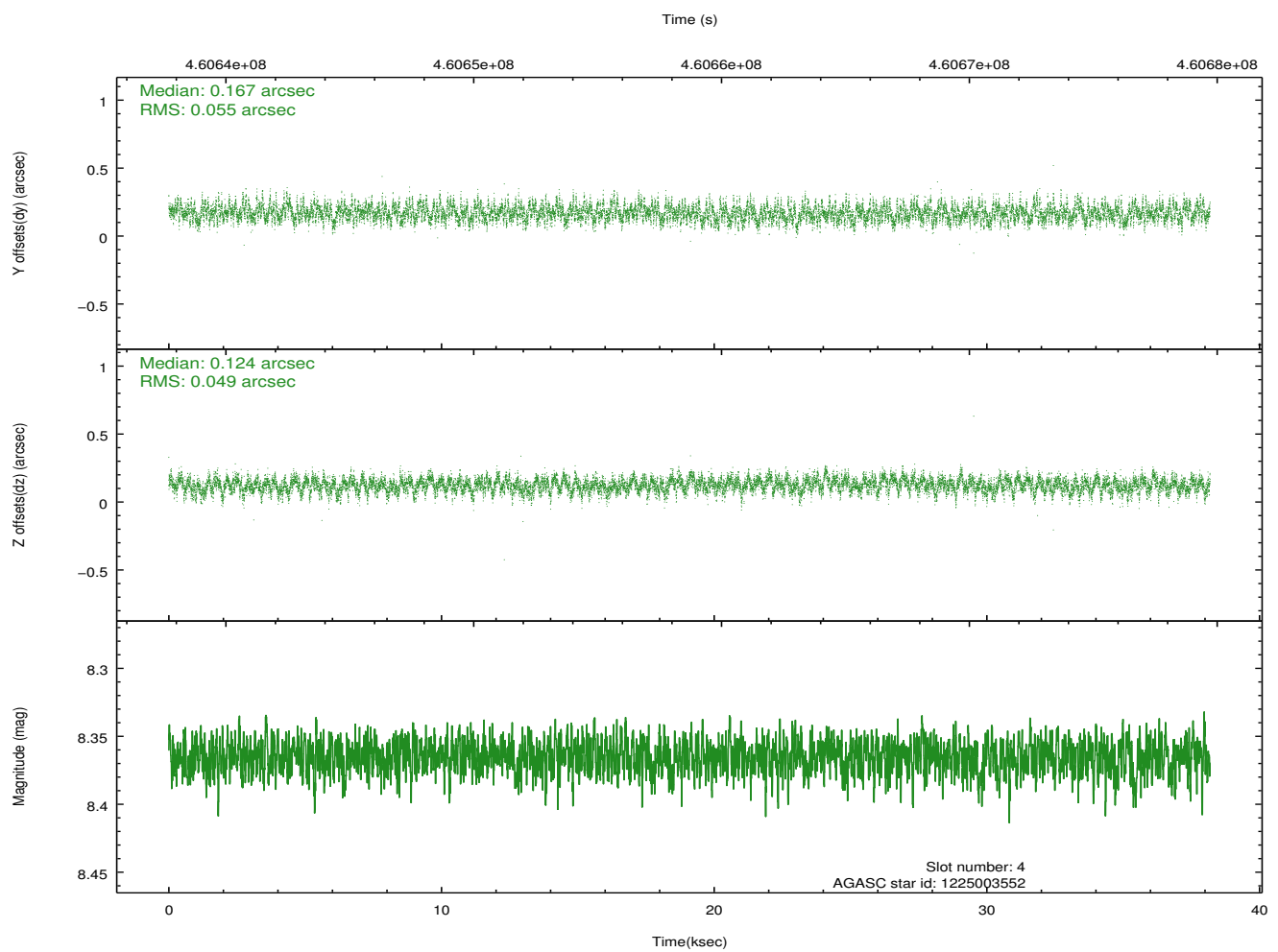
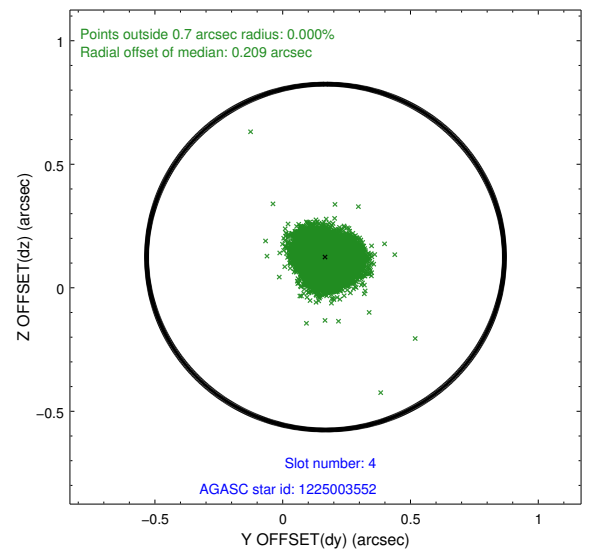
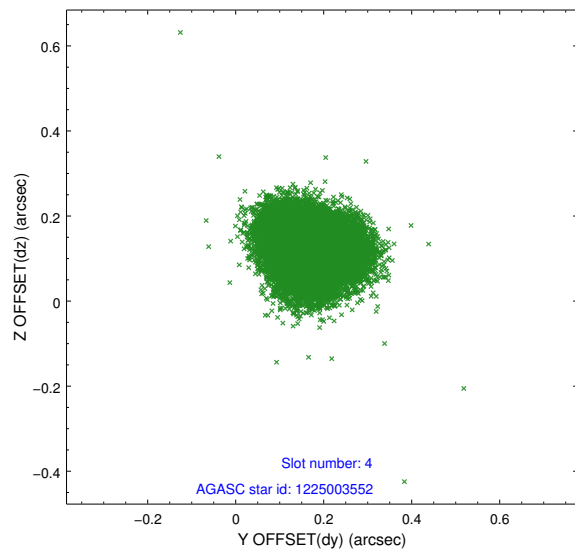
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.02	9313	-0.140	-0.107	0.012	0.026	0.000000	0.000000	-769.62	-905.94
1	FID	ACIS-I-4	7.00	9314	0.250	0.108	0.018	0.026	0.000000	0.000000	2144.77	1000.46
2	FID	ACIS-I-5	7.08	9315	-0.212	0.068	0.018	0.027	0.000000	0.000000	-1823.37	997.85
3	GUIDE	1225000552	8.35	18621	0.052	-0.101	0.062	0.102	8.530584	-75.420553	1331.56	-639.75
4	GUIDE	1225003552	8.37	18622	0.167	0.124	0.079	0.125	9.347455	-75.606804	1177.37	-1622.86
5	GUIDE	1225004464	8.30	18626	-0.100	0.294	0.059	0.096	6.739648	-76.315207	-2212.42	-1177.83
6	GUIDE	1225009328	8.46	18622	-0.164	-0.134	0.066	0.106	5.810626	-76.004611	-1778.44	126.32
7	GUIDE	1225007464	8.53	18620	0.043	-0.179	0.073	0.120	4.569364	-75.663277	-1456.65	1739.55

## 2.4 Star Slots

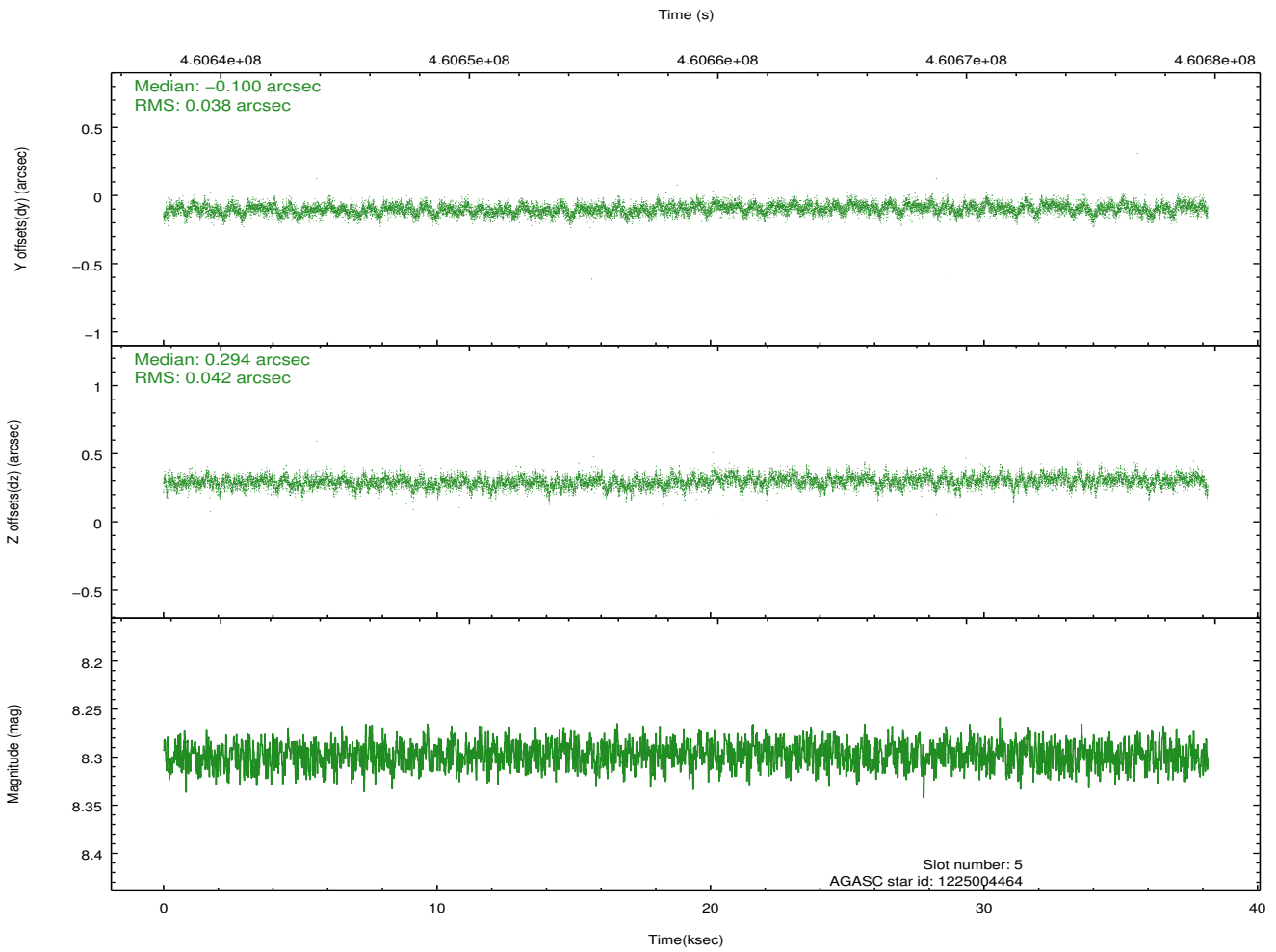
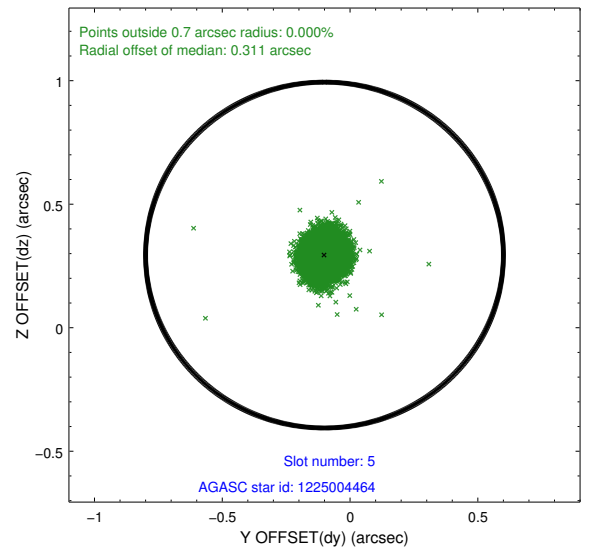
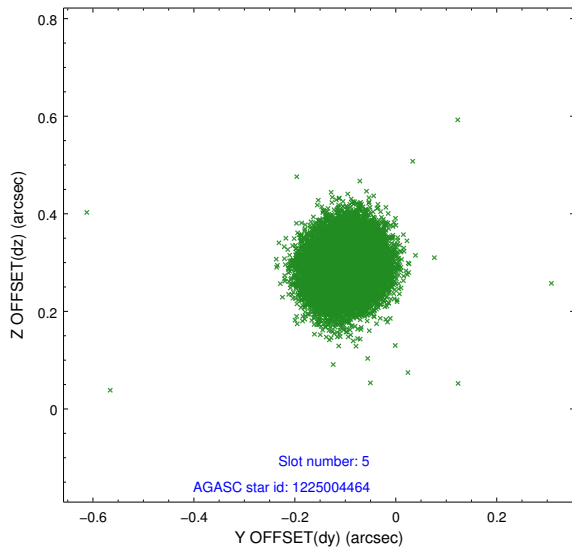
### 2.4.1 Slot 3



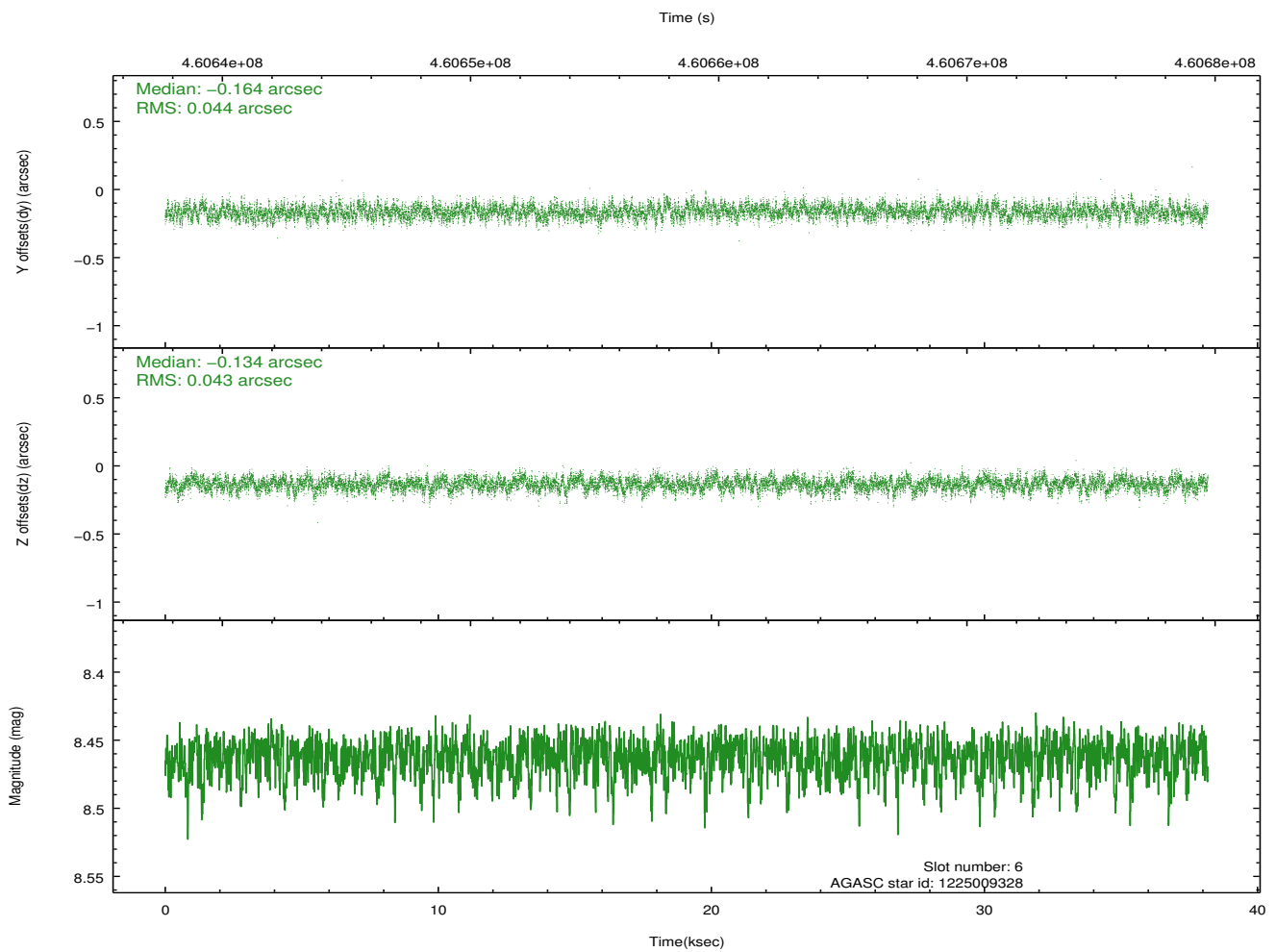
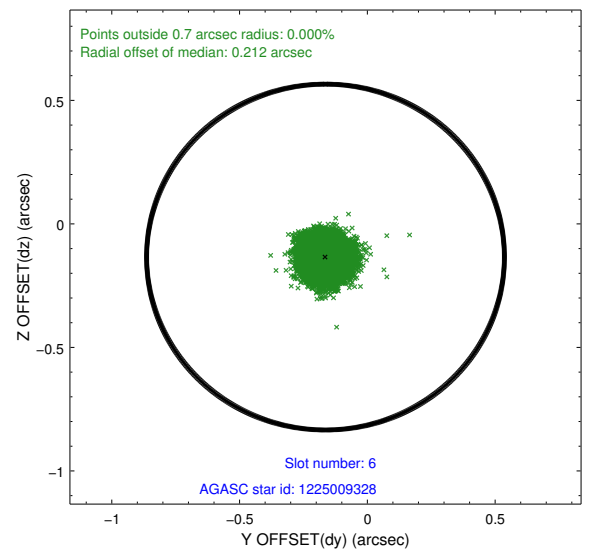
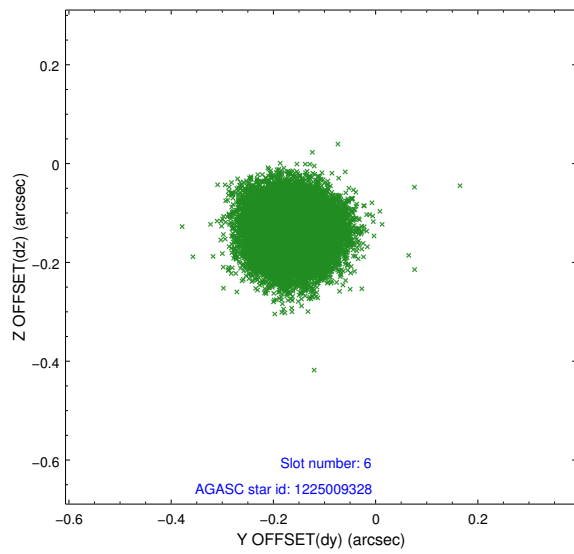
## 2.4.2 Slot 4



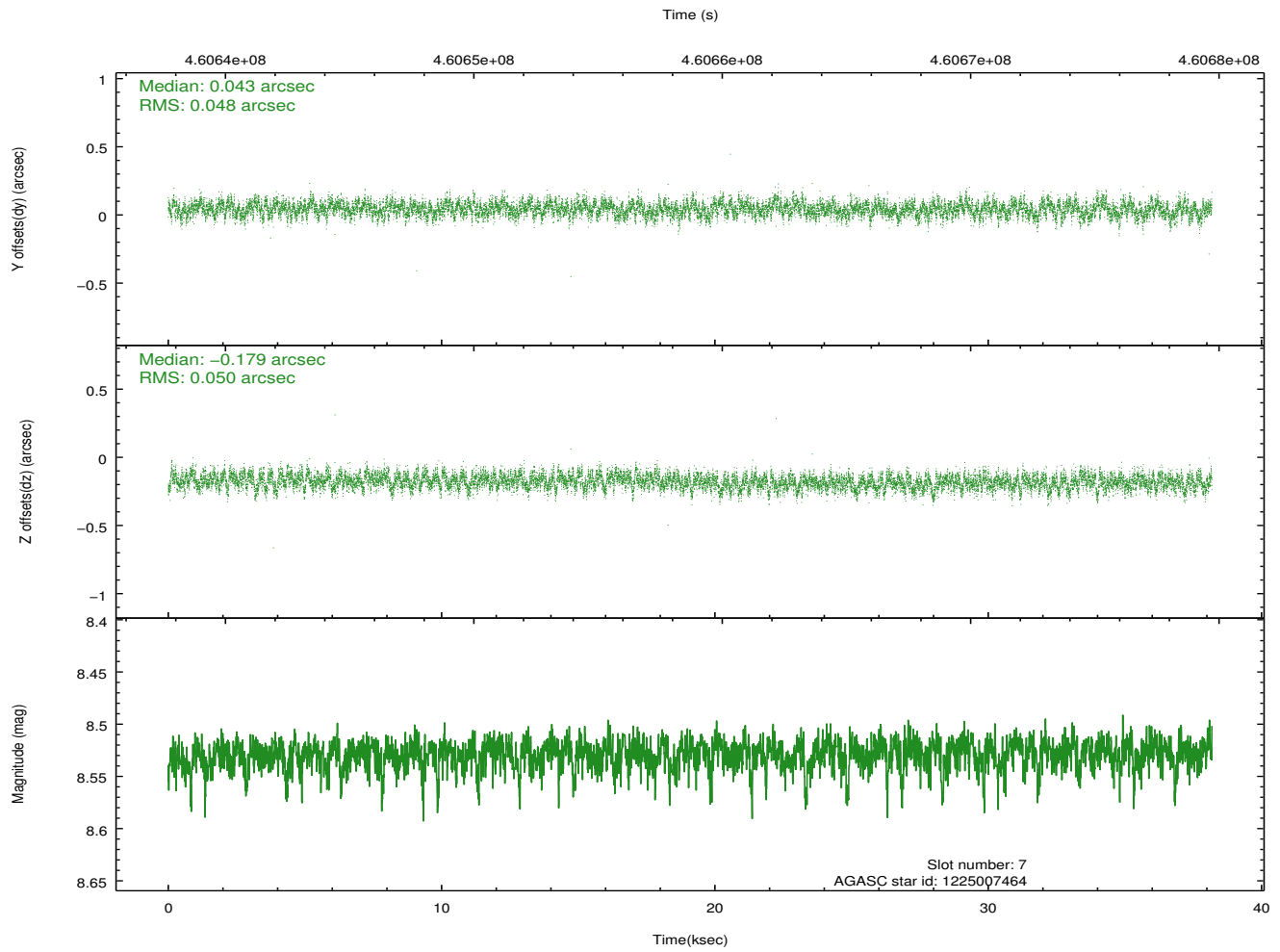
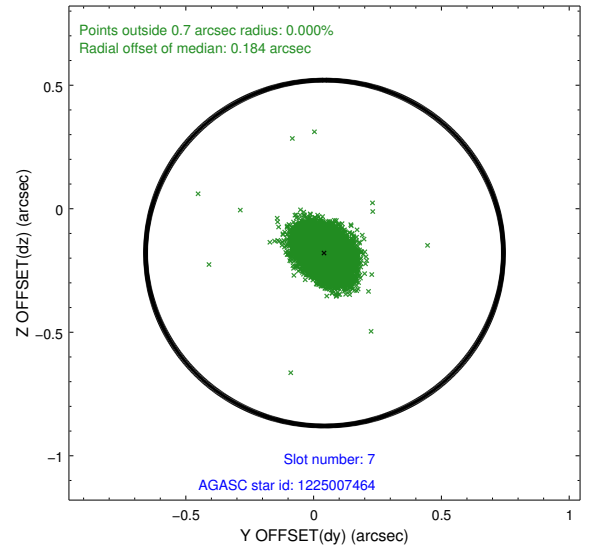
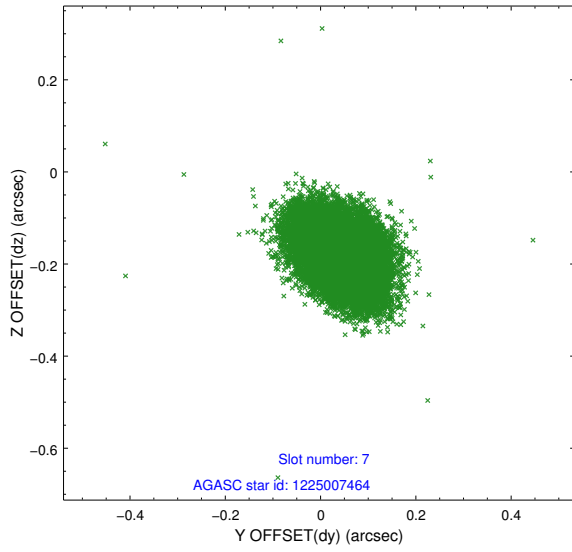
### 2.4.3 Slot 5



## 2.4.4 Slot 6

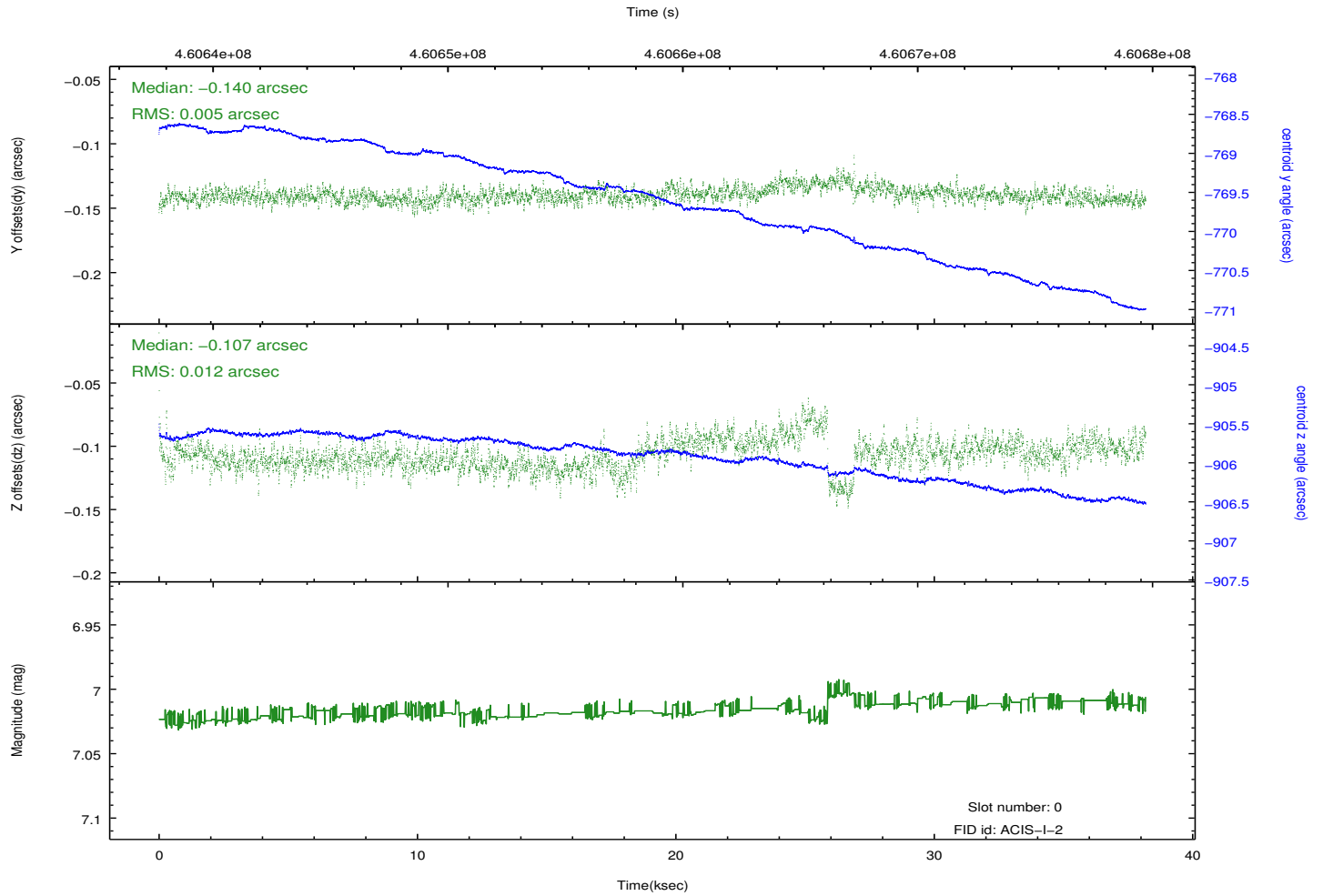
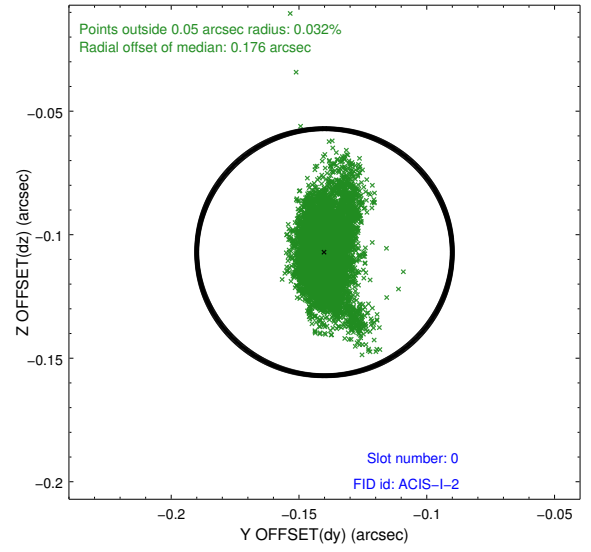
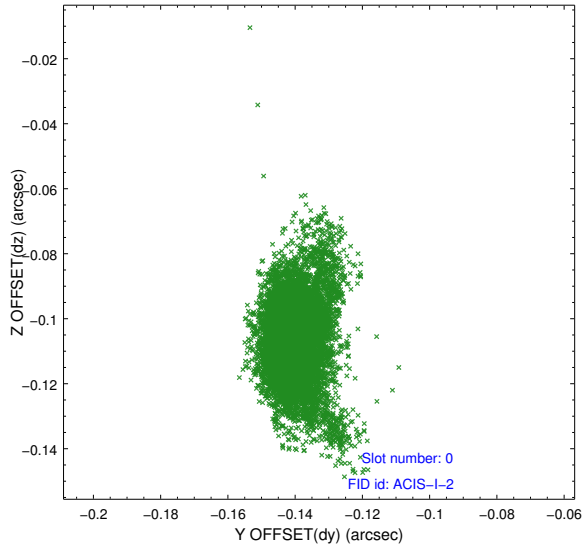


### 2.4.5 Slot 7

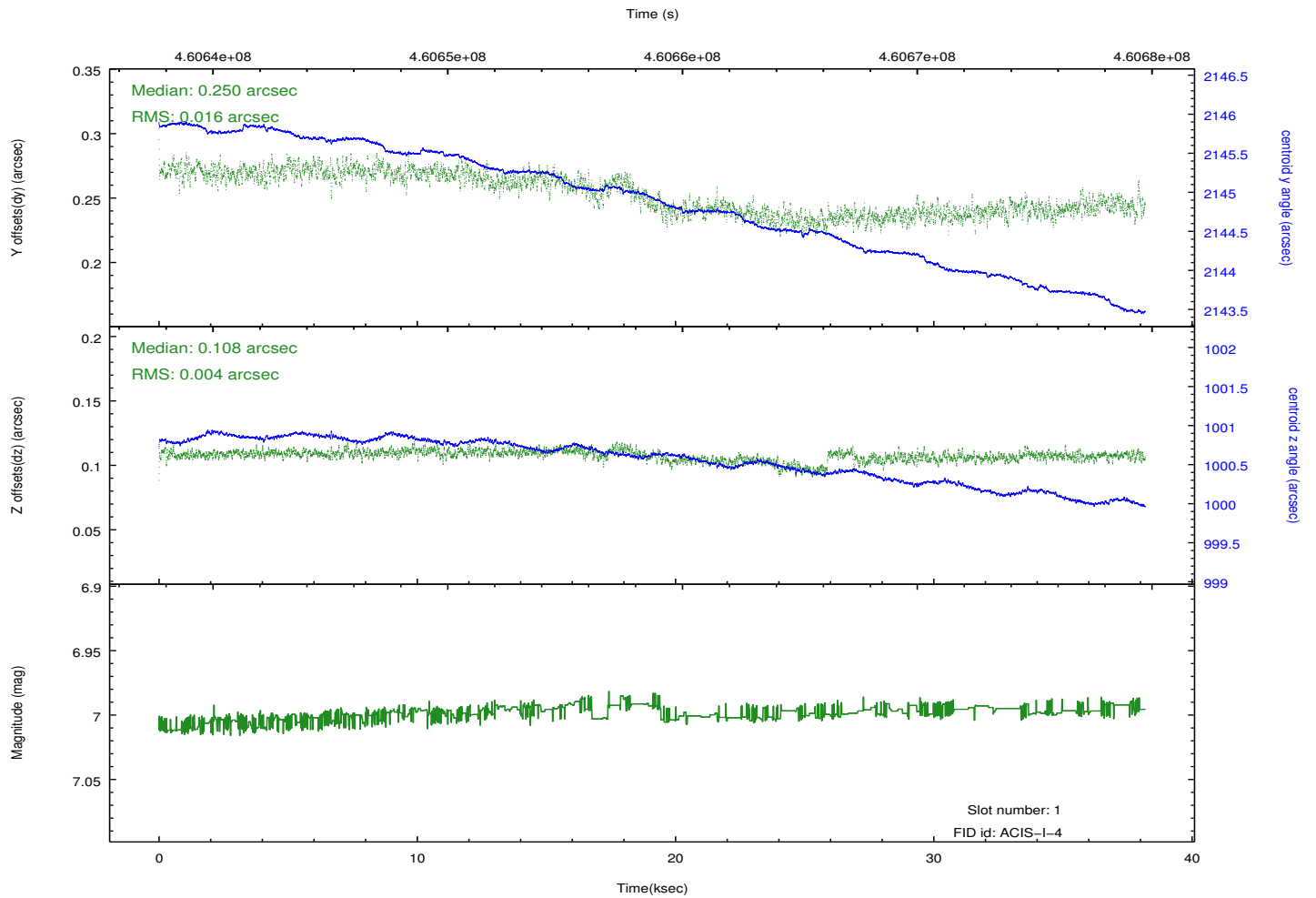
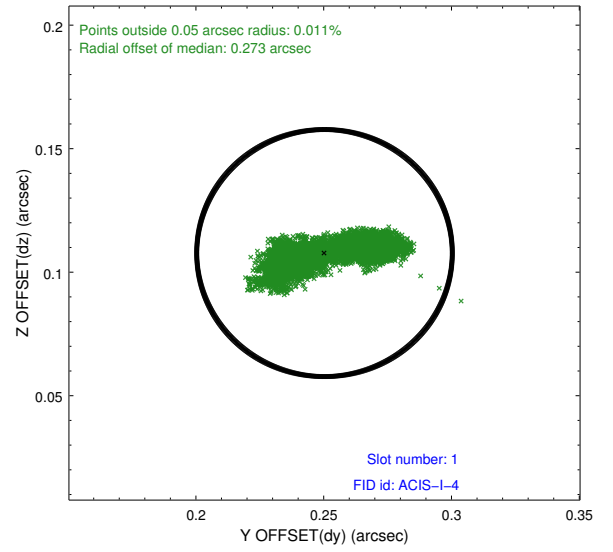
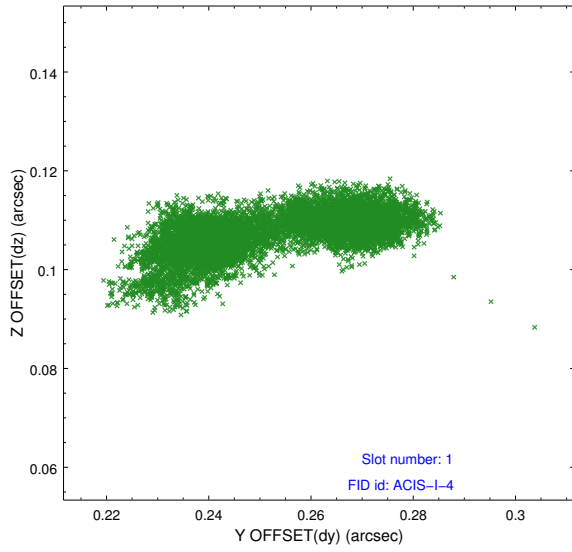


## 2.5 FID Slots

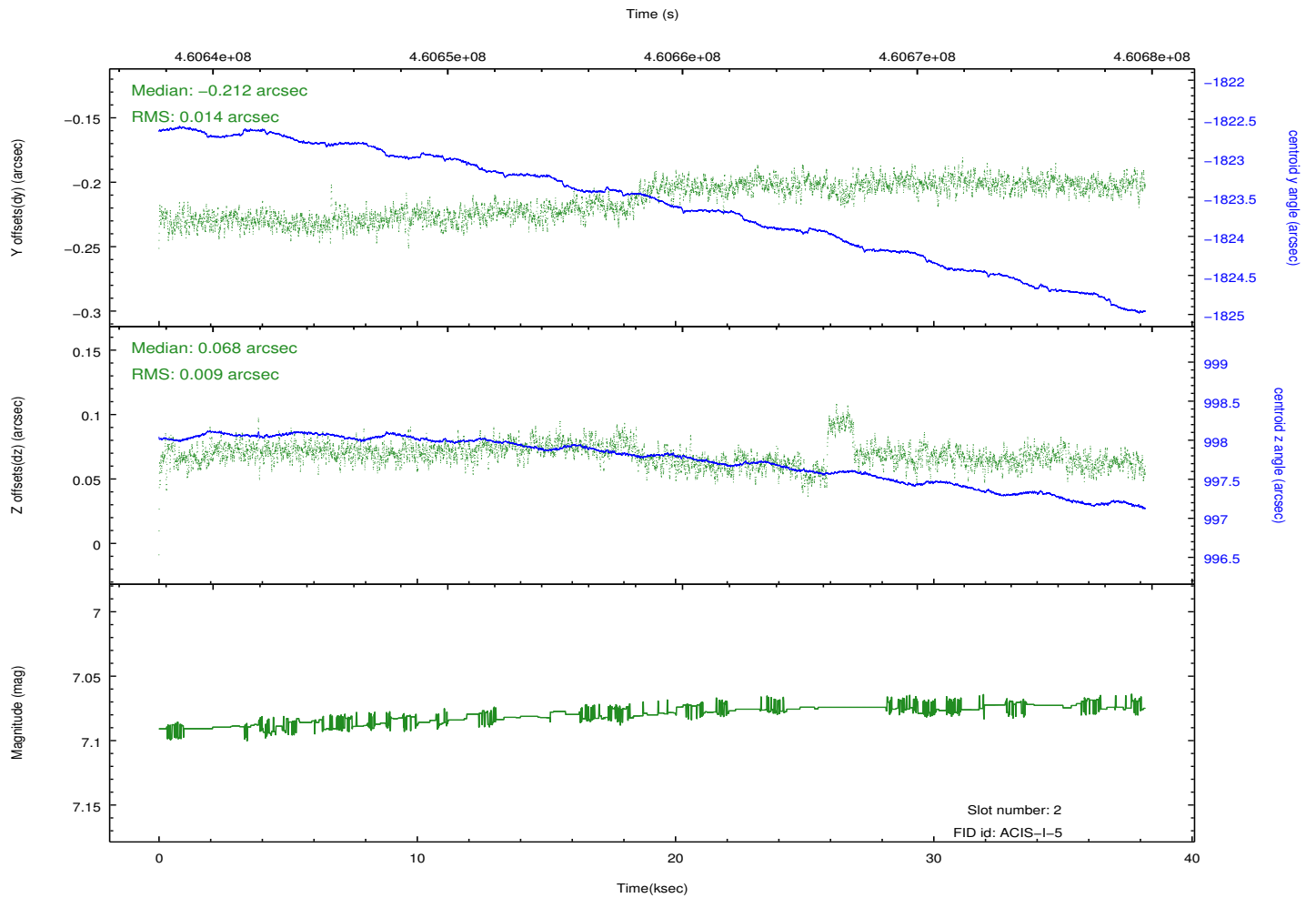
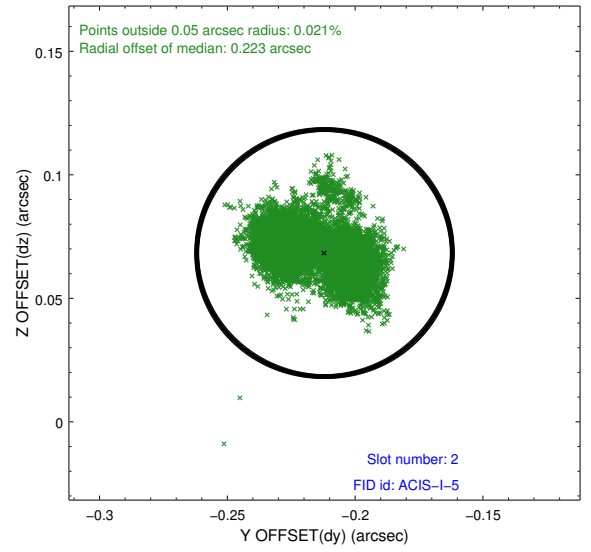
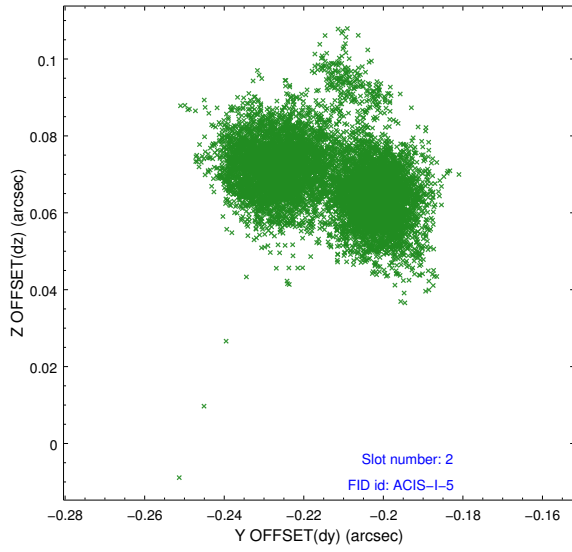
### 2.5.1 Slot 0



## 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)	2012.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.770400290489

### A.2 Comments