

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 9087 - L2 Version 2  
Chandra X-Ray Center

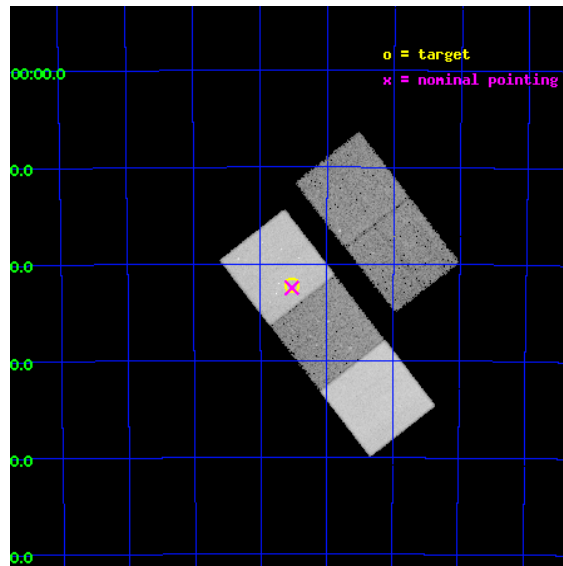
L2 Processing Date : Jun 28 2012

## 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

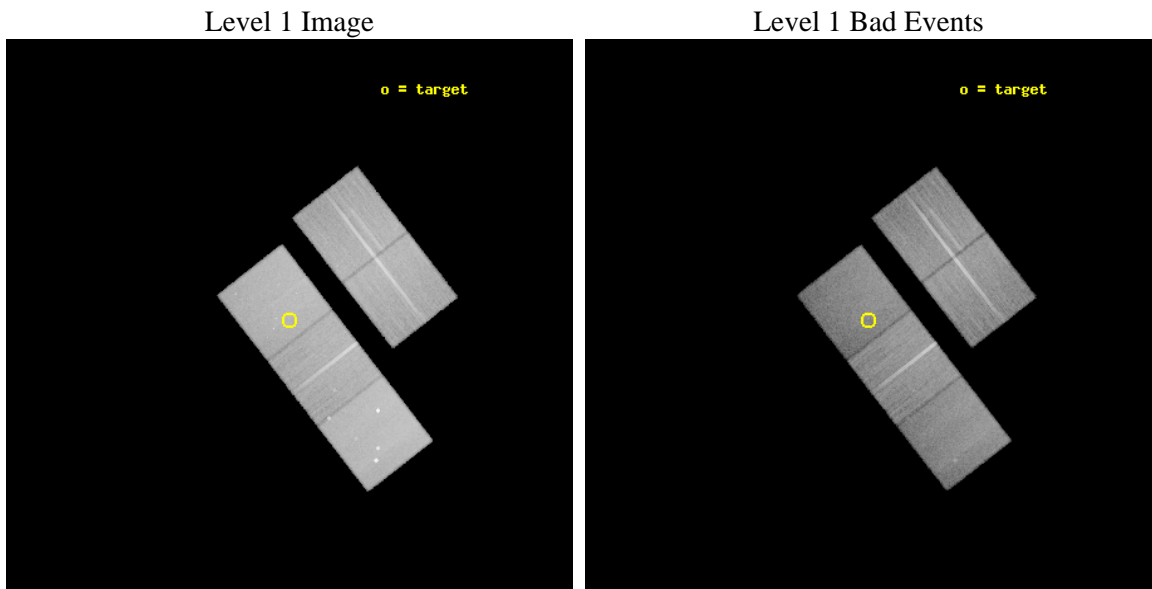
seq_num	500950	Sequence number
obs_id	9087	Observation id
title	The extreme late-time light curve of GRB 060729	Proposal title
observer	Dr. Dirk Grupe	Principal investigator
object	GRB 060729	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.382917	Observer's specified target RA [deg]
dec_targ	-62.370139	Observer's specified target Dec [deg]
ra_nom	95.381774698997	Nominal RA [deg]
dec_nom	-62.374947519301	Nominal Dec [deg]
roll_nom	232.15561550758	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32782.500252128	Sum of GTIs [s]
livetime	32354.172752208	Livetime [s]
ontime2	32779.359291732	Sum of GTIs [s]
ontime3	32776.218321502	Sum of GTIs [s]
ontime5	32782.500252128	Sum of GTIs [s]
ontime6	32779.359281838	Sum of GTIs [s]
ontime7	32782.500252128	Sum of GTIs [s]
l2events	365527	Number of level 2 events



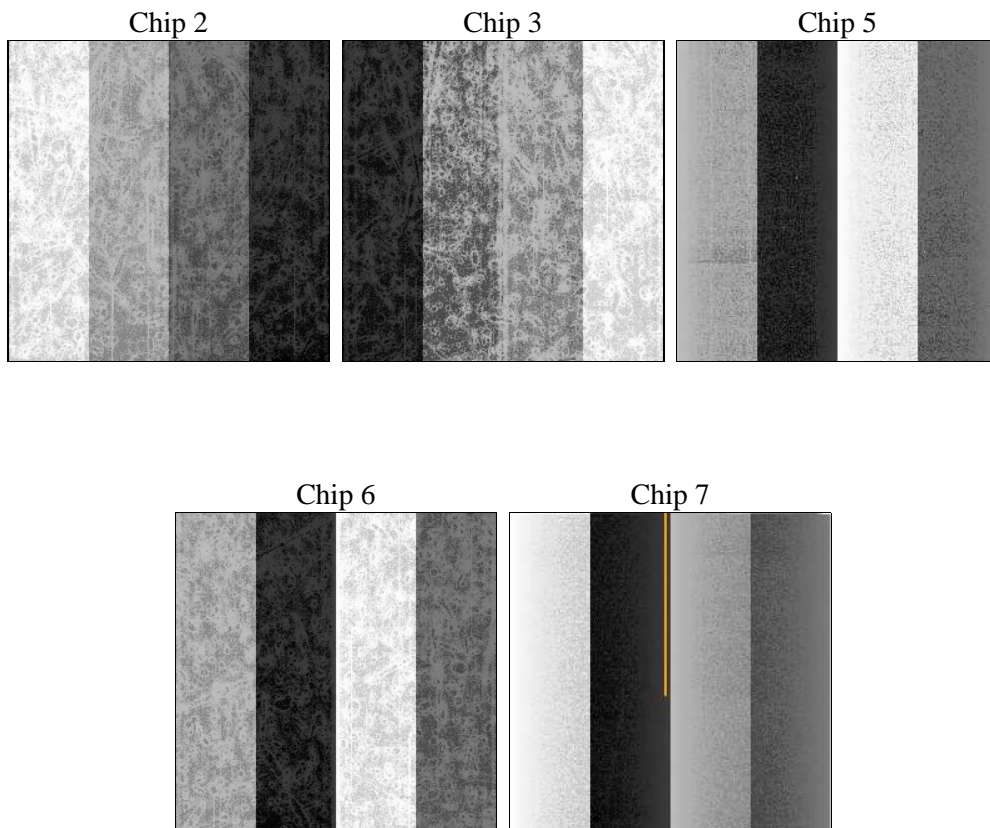
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32605.948000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	32782.500252128	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime2	32779.359291732	Sum of GTIs [s]
date	2012-06-28T13:55:44	Date and time of file creation	ontime3	32776.218321502	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	32782.500252128	Sum of GTIs [s]
			ontime6	32779.359281838	Sum of GTIs [s]
			ontime7	32782.500252128	Sum of GTIs [s]
			l1events	1443512	Number of level 1 events

### 2.1.4 Events

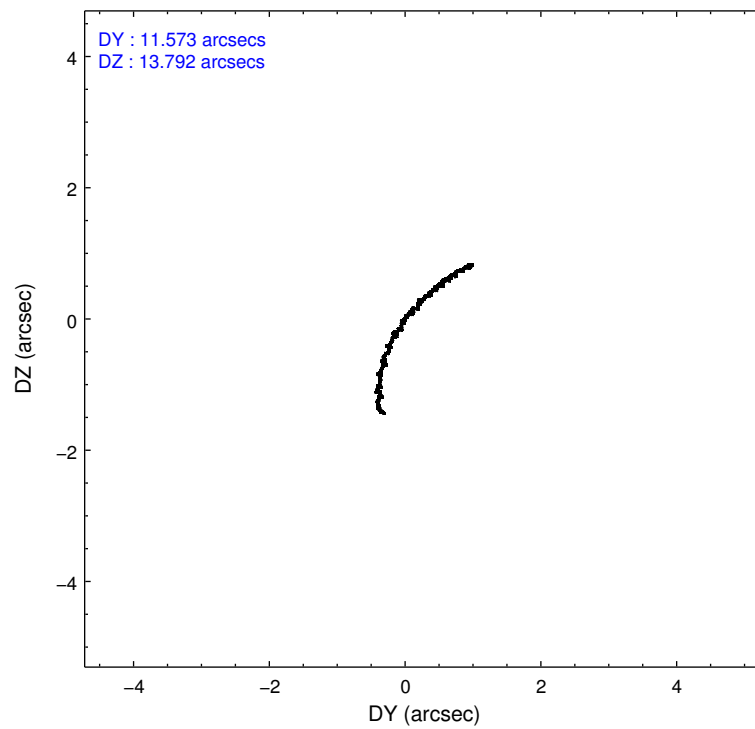
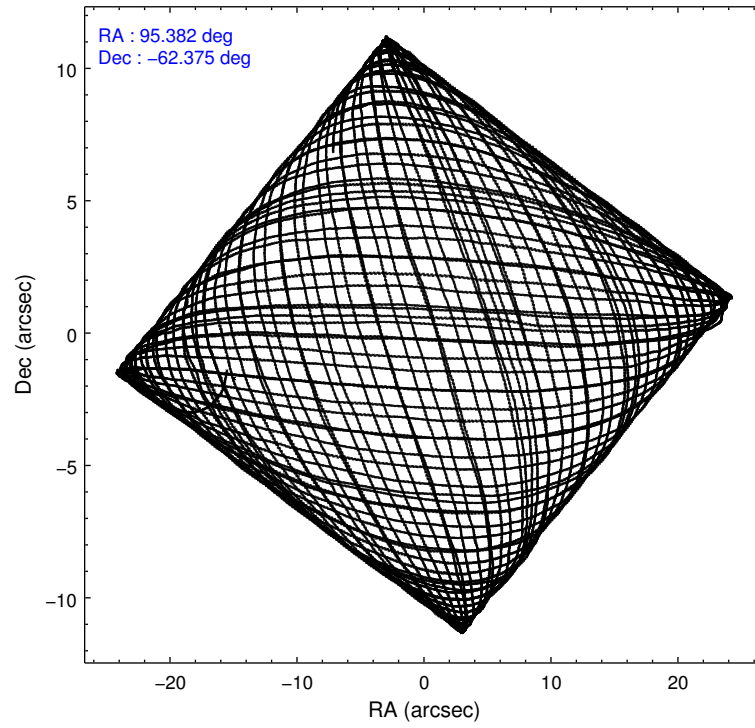
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	266145	253664	367698	260958	295047
rejected events	241163	229454	182724	233471	160538
rejected %	90%	90%	49%	89%	54%

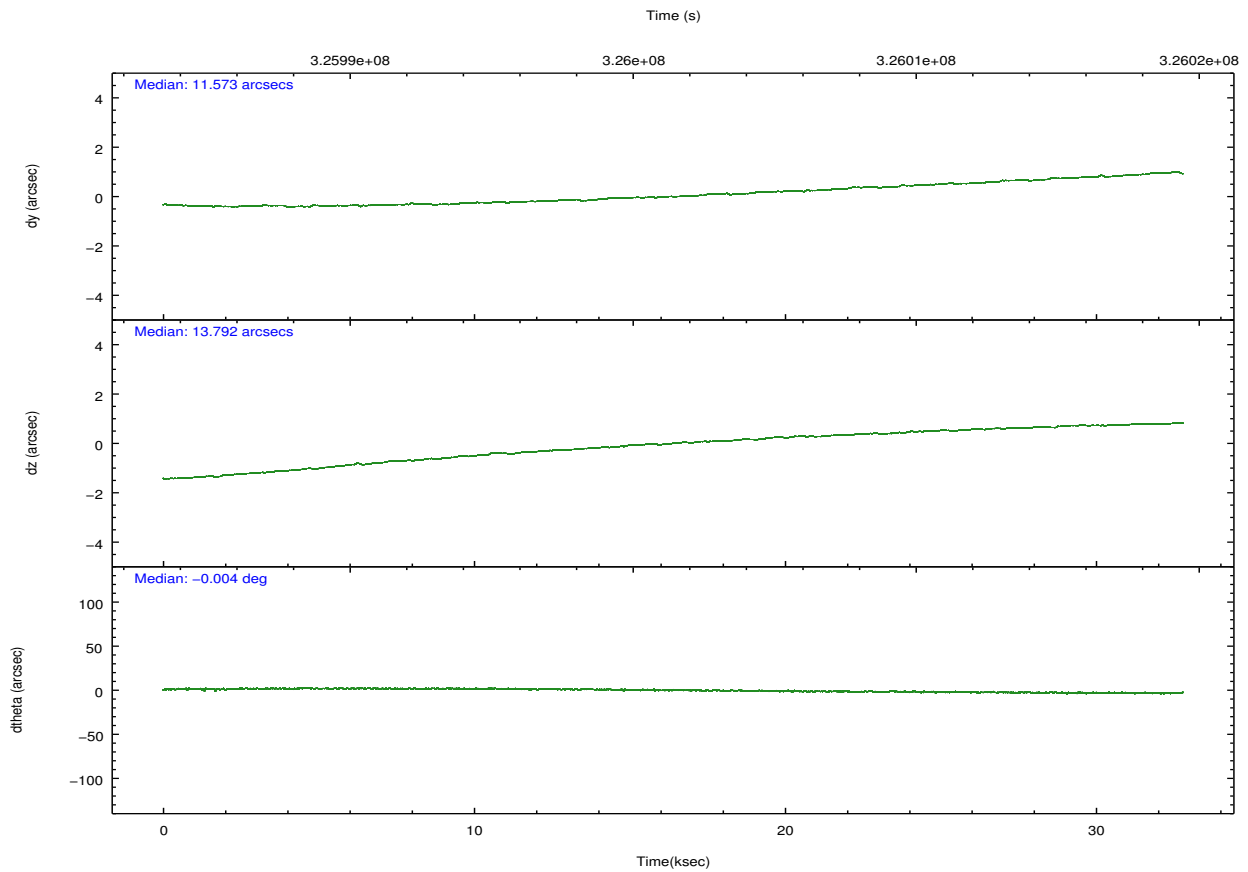
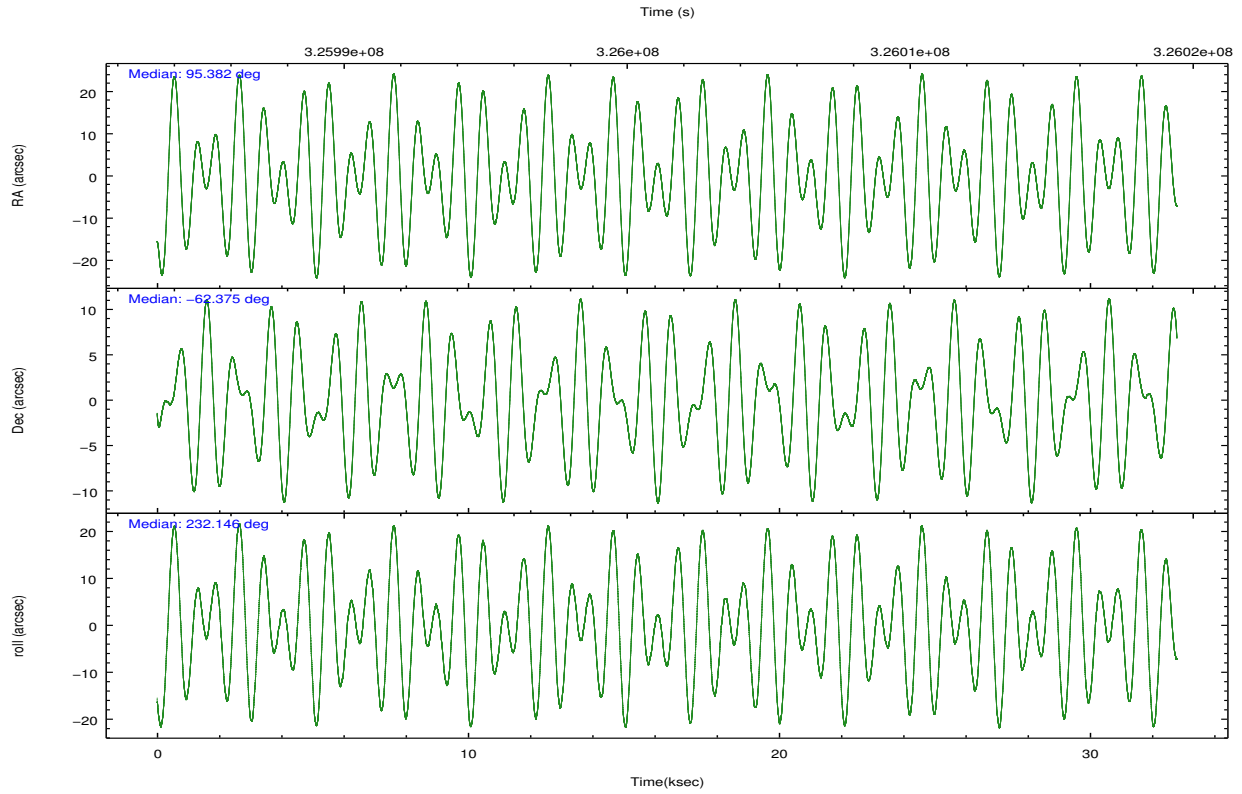
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	8754	8551	22553	9631	12977
	3%	3%	6%	3%	4%
grade 1 events	160	154	999	146	355
	0%	0%	0%	0%	0%
grade 2 events	6136	5209	53140	6122	27334
	2%	2%	14%	2%	9%
grade 3 events	2704	2829	7739	2994	12474
	1%	1%	2%	1%	4%
grade 4 events	2828	2779	7496	2938	12222
	1%	1%	2%	1%	4%
grade 5 events	8516	10431	28581	10736	31100
	3%	4%	7%	4%	10%
grade 6 events	4595	4875	94292	5833	69671
	1%	1%	25%	2%	23%
grade 7 events	232452	218836	152898	222558	128914
	87%	86%	41%	85%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	95.389043	95.38177469899715	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.347823	-62.37494751930108	Alternating exposures requested	N	N
[deg] Pointing Roll	232.005427	232.1556155075843	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	325985197.184000	325984178.27313			
Observation start date	2008-04-30T23:25:32	2008-04-30T23:09:38			
[s] Observation end time (MET)	326017803.184000	326018032.48728			
Observation end date	2008-05-01T08:28:58	2008-05-01T08:33:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



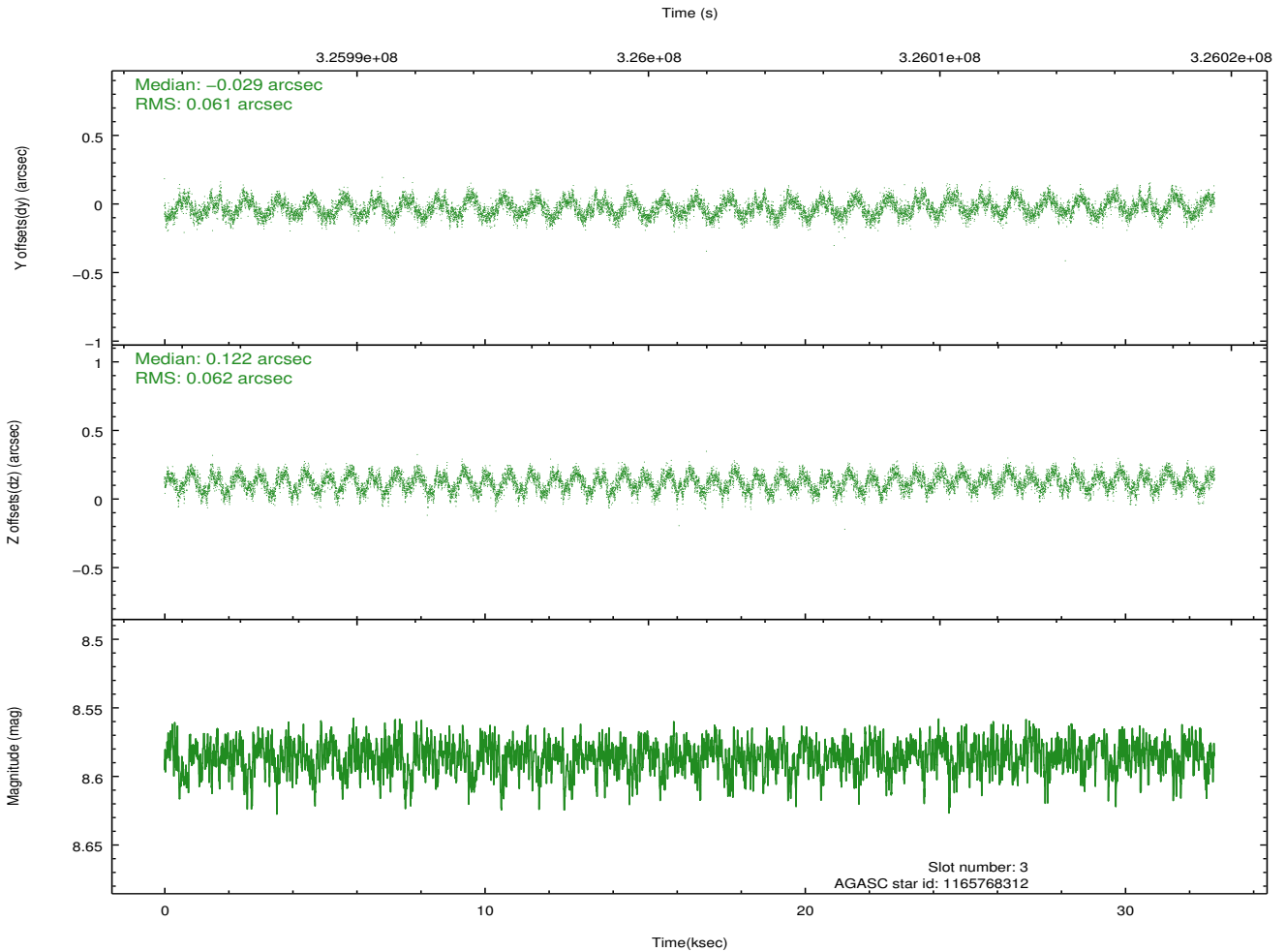
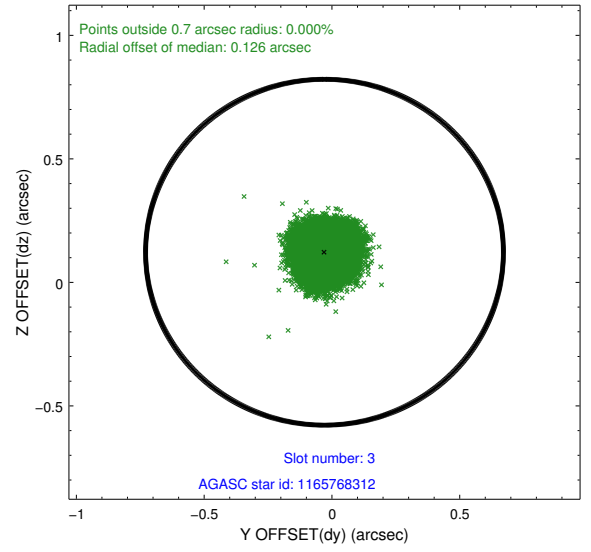
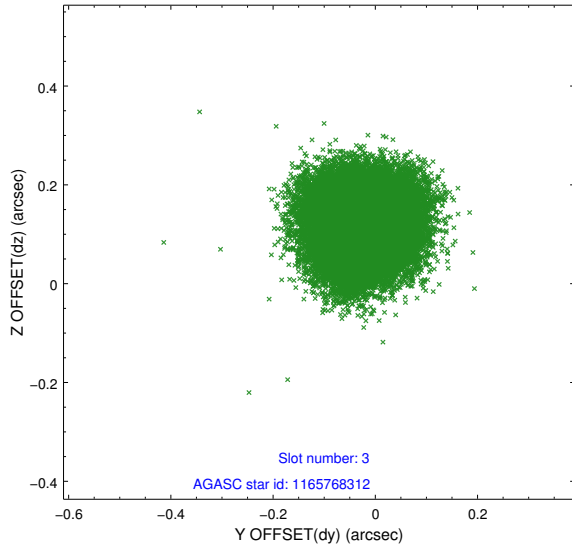


### Slot Statistics

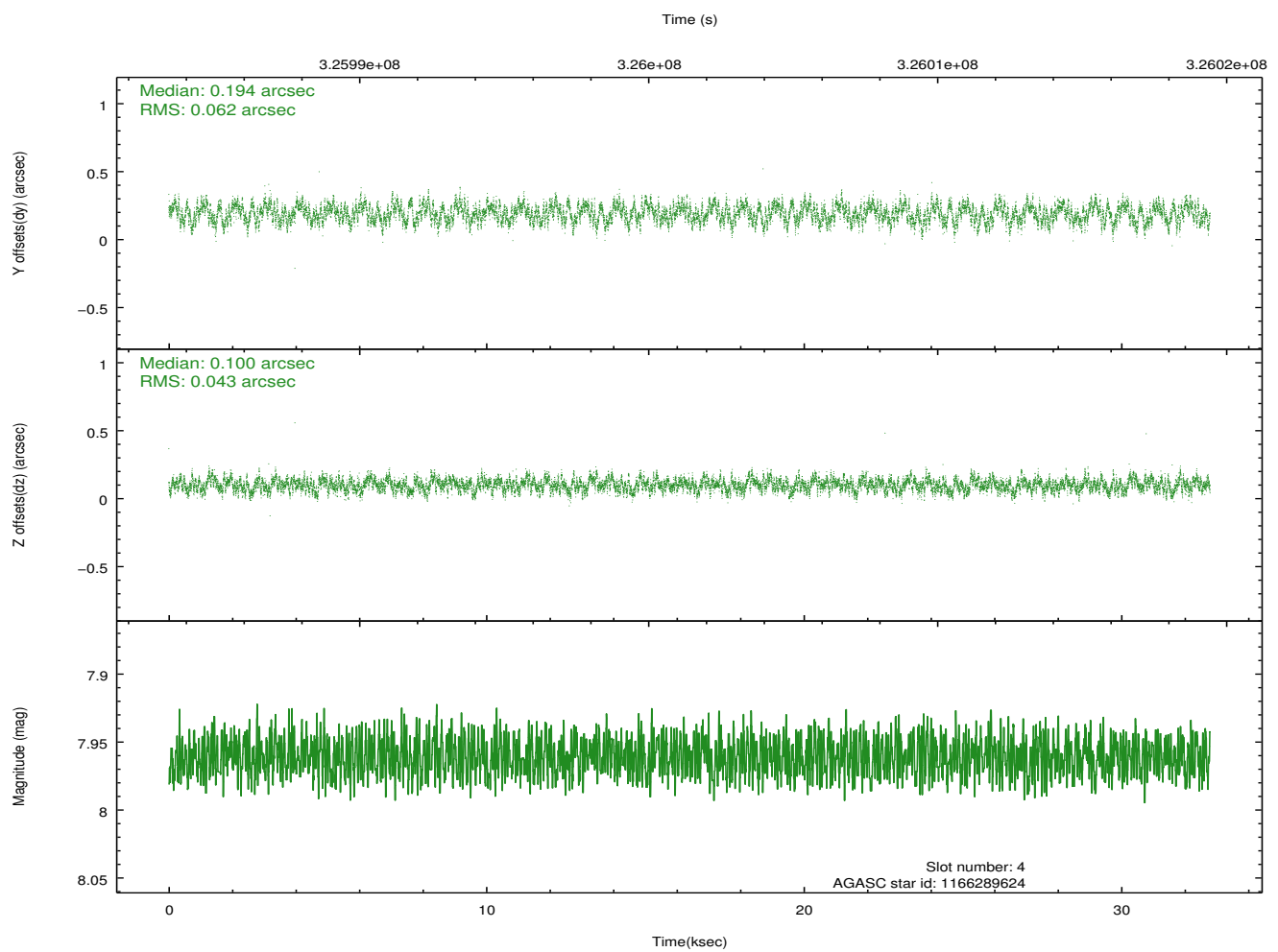
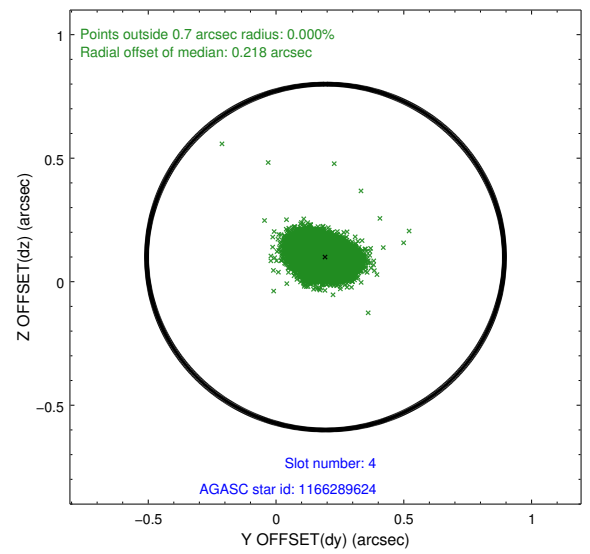
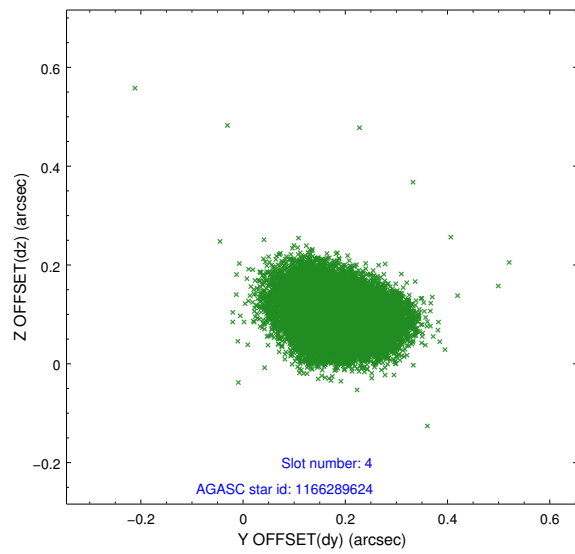
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	7998	-0.032	-0.015	0.013	0.019	0.000000	0.000000	-764.59	-1734.98
1	FID	ACIS-S-4	6.99	7998	0.096	0.020	0.017	0.028	0.000000	0.000000	2148.79	173.47
2	FID	ACIS-S-5	7.02	7997	-0.095	0.006	0.013	0.019	0.000000	0.000000	-1817.43	167.20
3	GUIDE	1165768312	8.59	15990	-0.029	0.122	0.095	0.140	95.468462	-61.602862	-2196.69	-1543.65
4	GUIDE	1166289624	7.96	15993	0.194	0.100	0.080	0.126	95.229966	-62.354097	181.97	-194.90
5	GUIDE	1166290504	9.15	15956	-0.035	-0.083	0.087	0.142	94.421217	-62.304320	883.28	-1364.85
6	GUIDE	1166293432	7.20	15997	-0.051	-0.021	0.069	0.109	95.278960	-62.189330	-335.37	-496.64
7	GUIDE	1166293888	7.03	15994	-0.082	-0.122	0.069	0.113	96.952580	-62.149930	-2155.12	1652.95

## 2.4 Star Slots

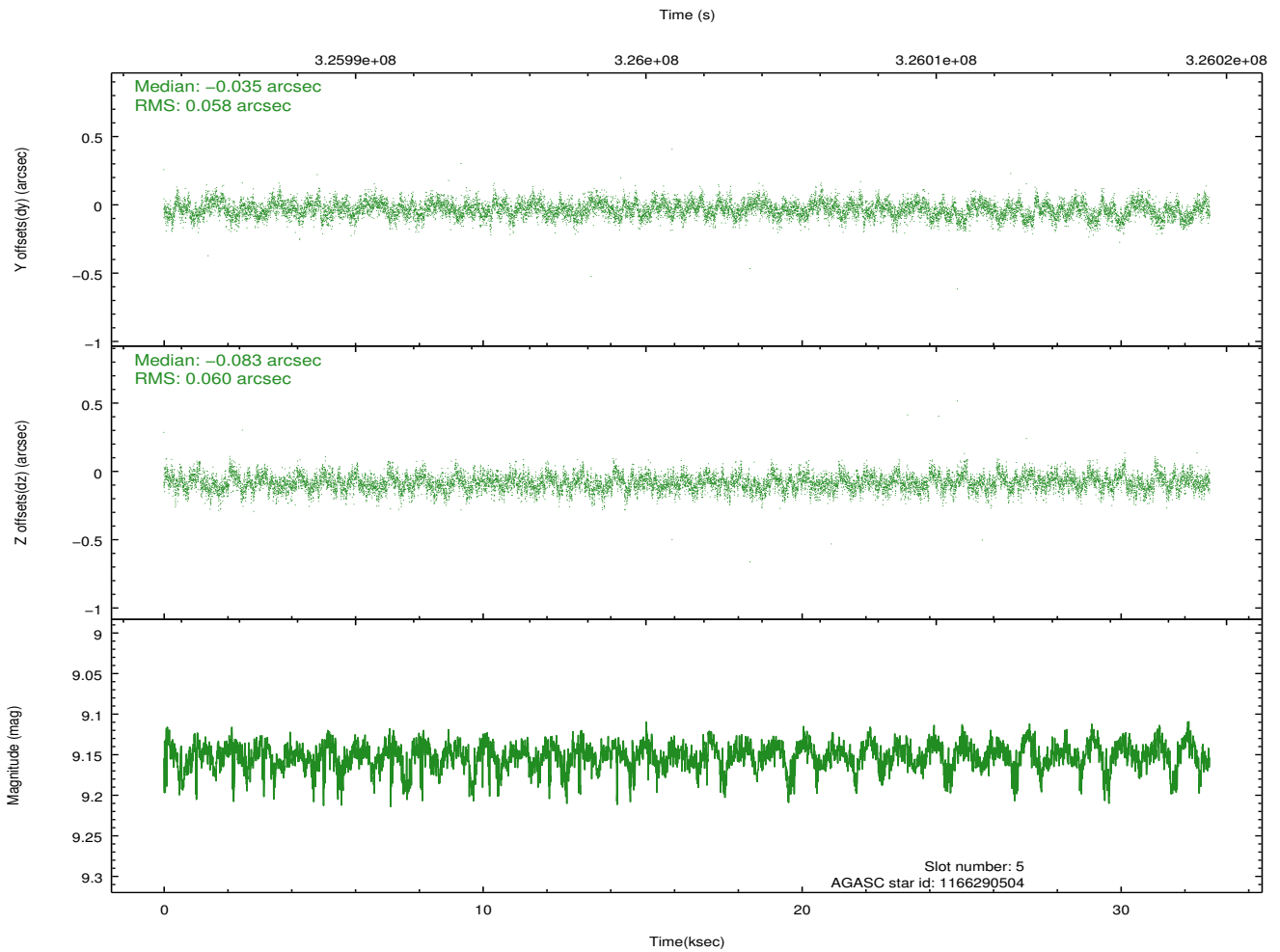
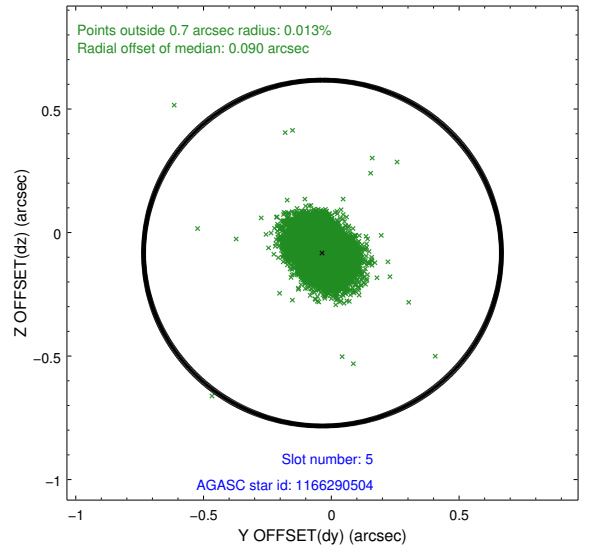
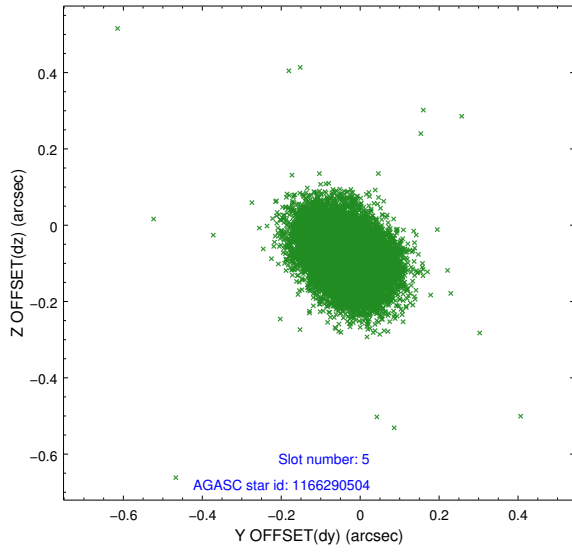
### 2.4.1 Slot 3



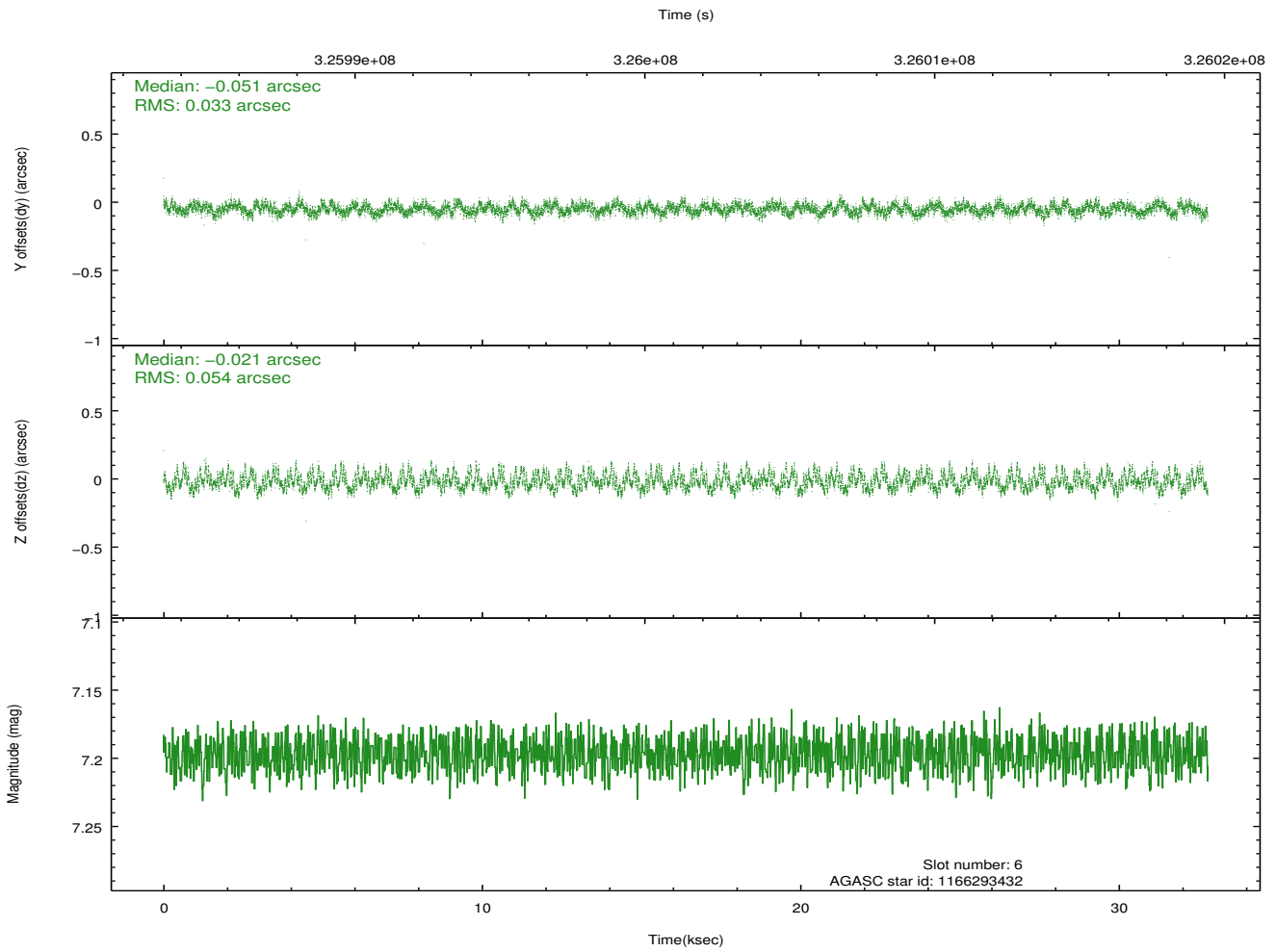
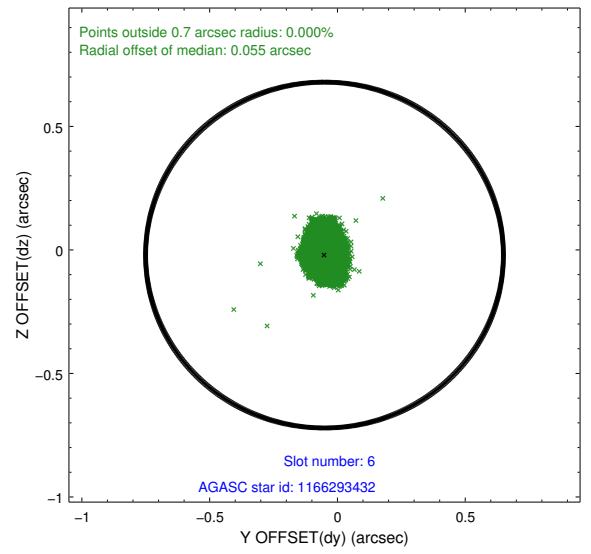
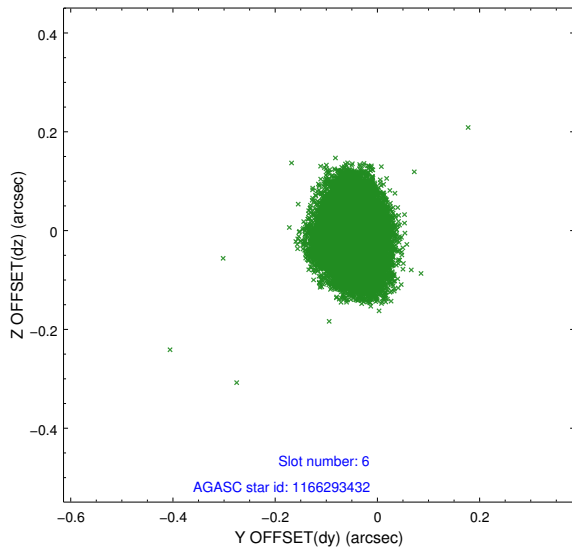
## 2.4.2 Slot 4



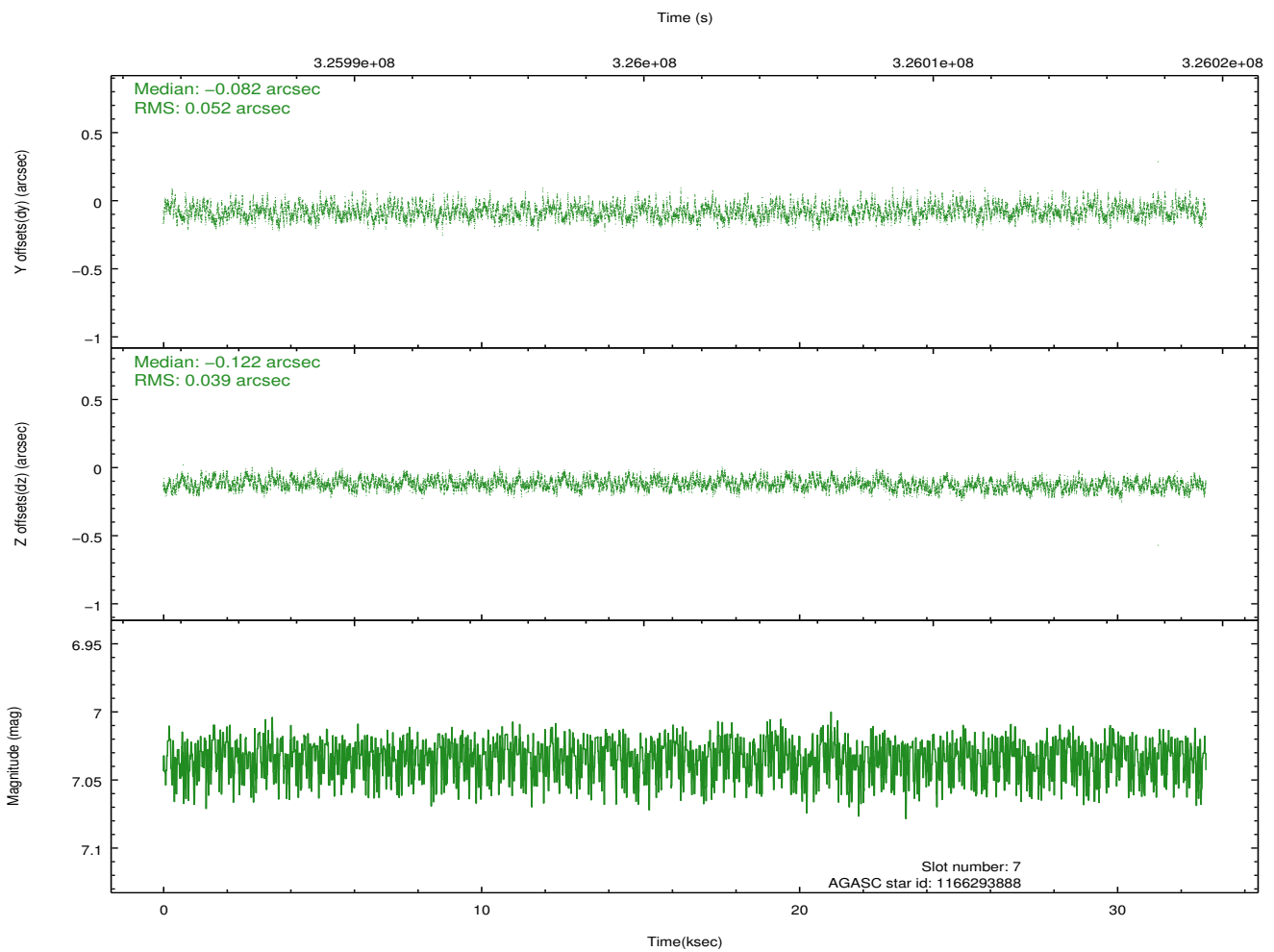
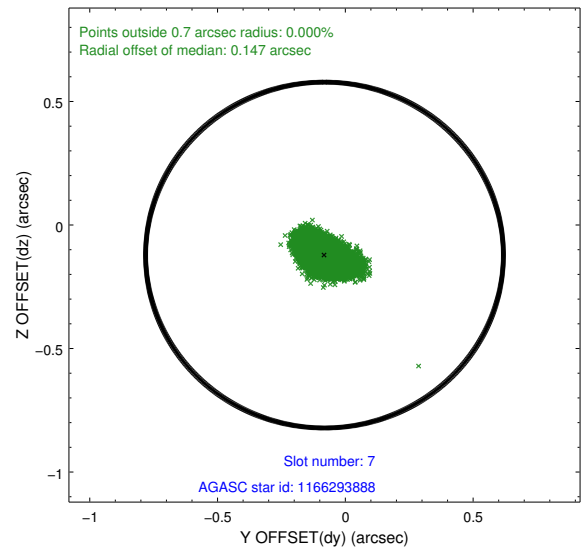
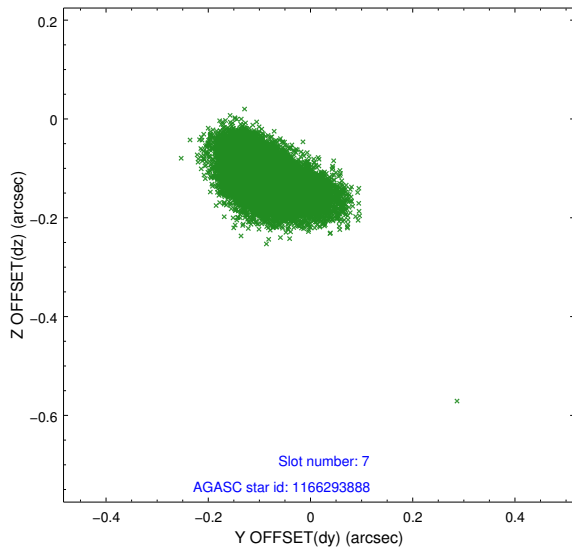
### 2.4.3 Slot 5



### 2.4.4 Slot 6

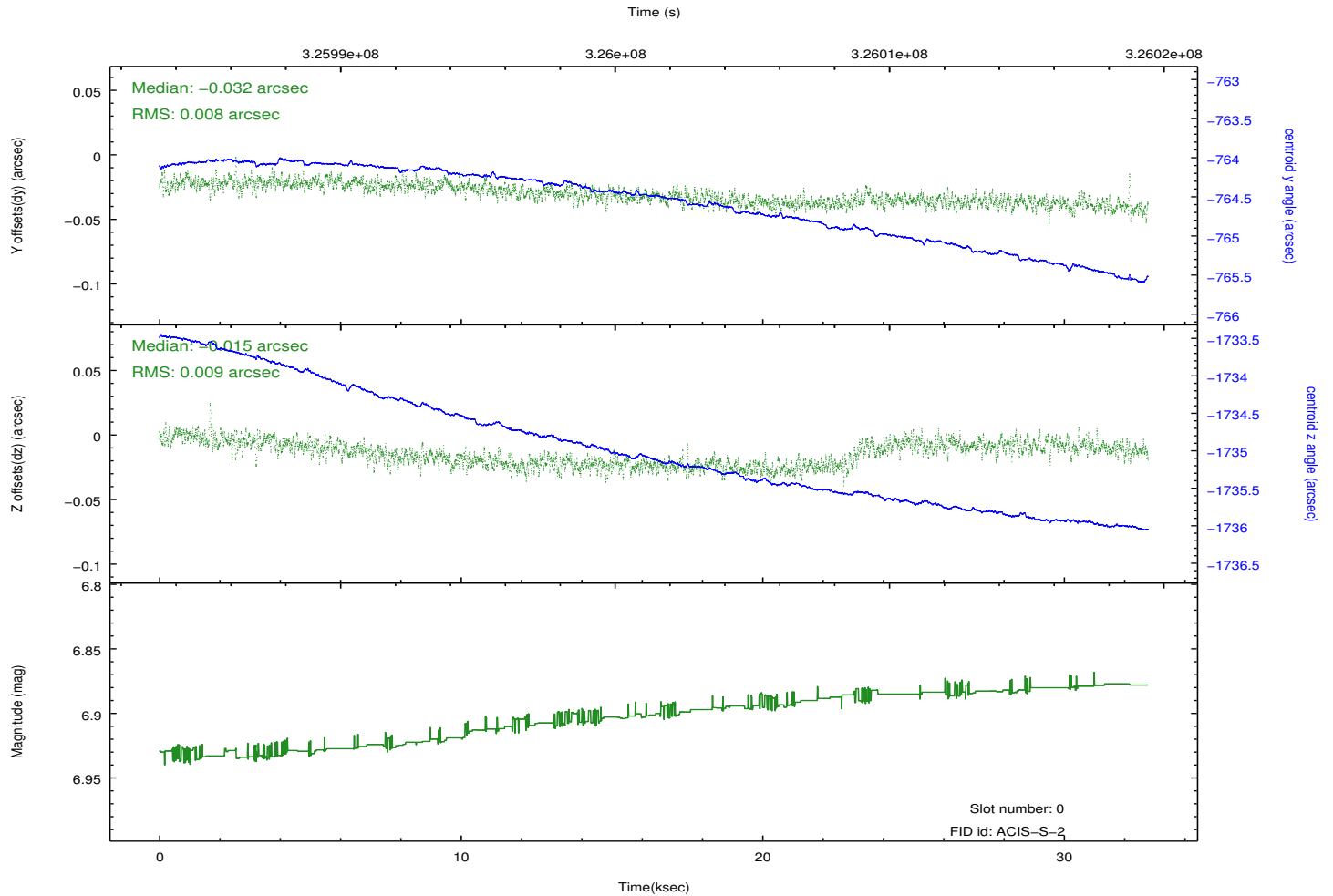
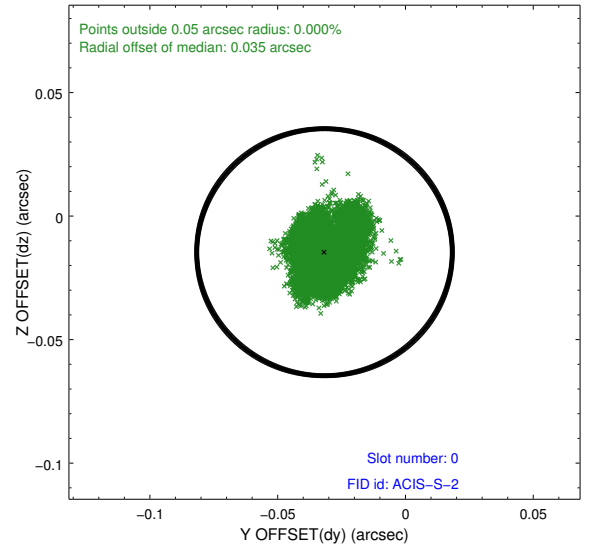
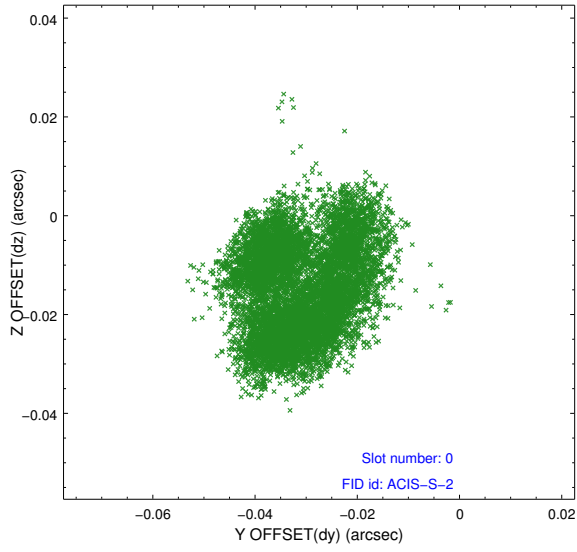


## 2.4.5 Slot 7

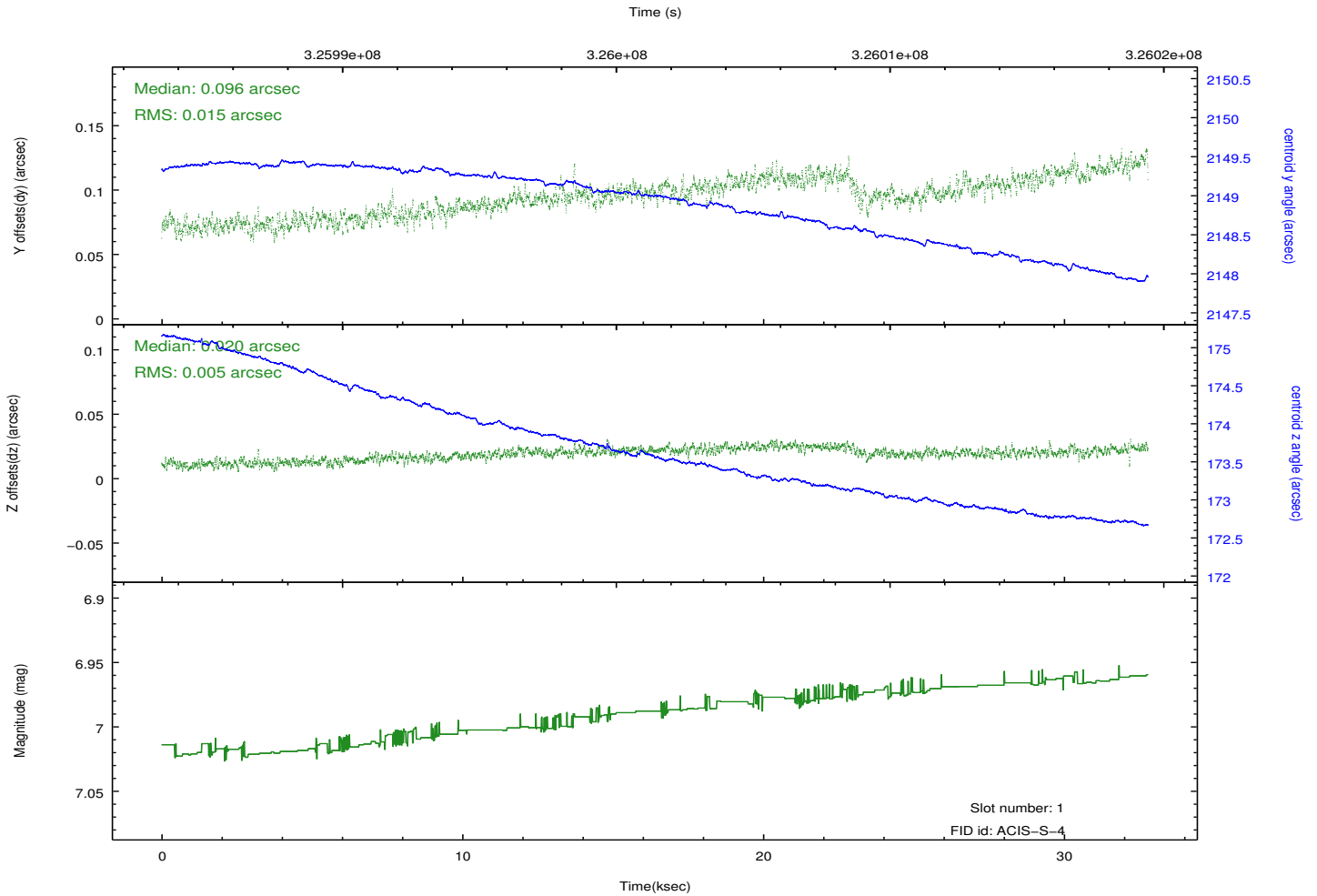
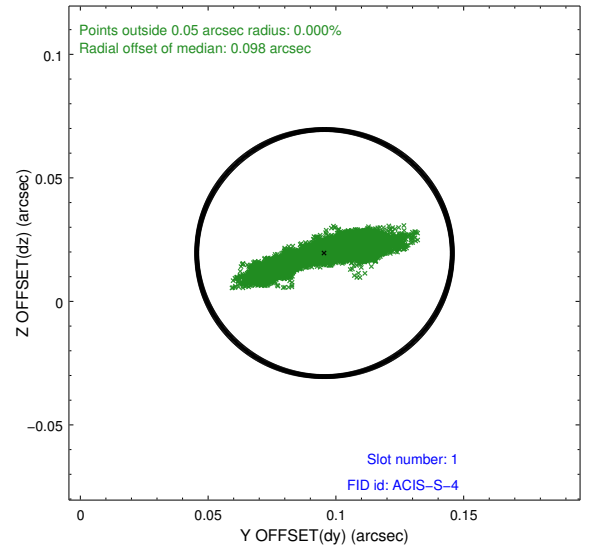
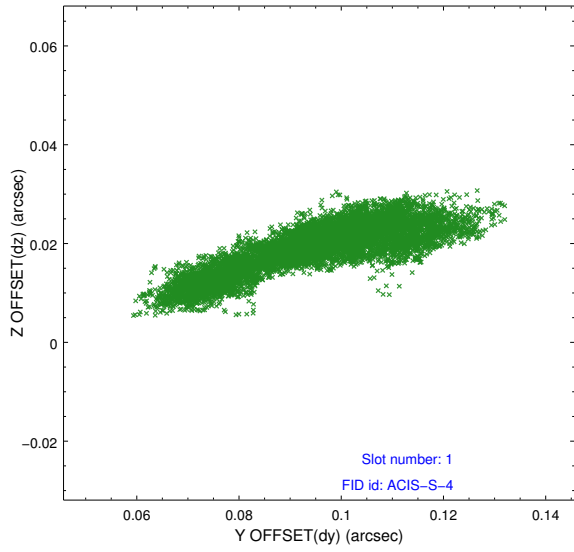


## 2.5 FID Slots

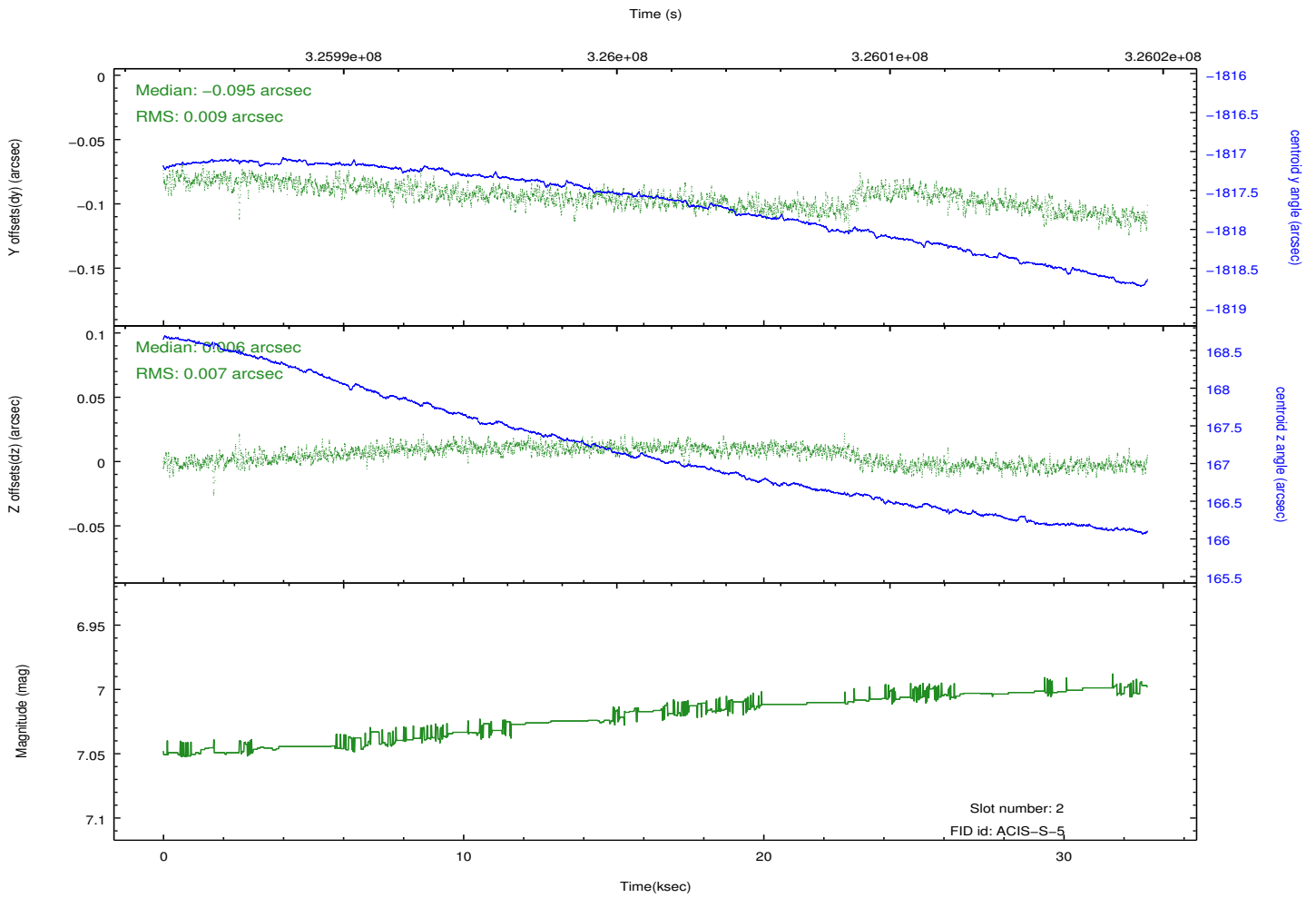
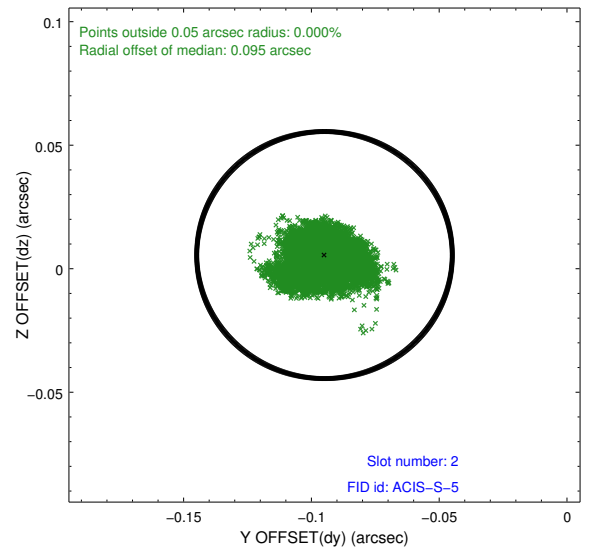
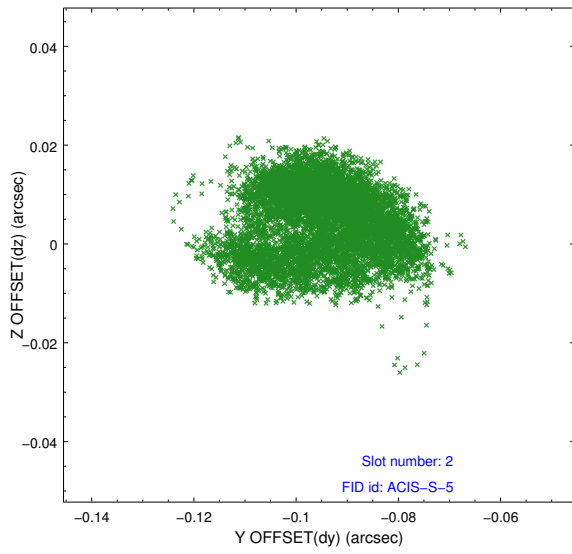
### 2.5.1 Slot 0



## 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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.7577002

## A.2 Comments