

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3794 - L2 Version 3  
Chandra X-Ray Center

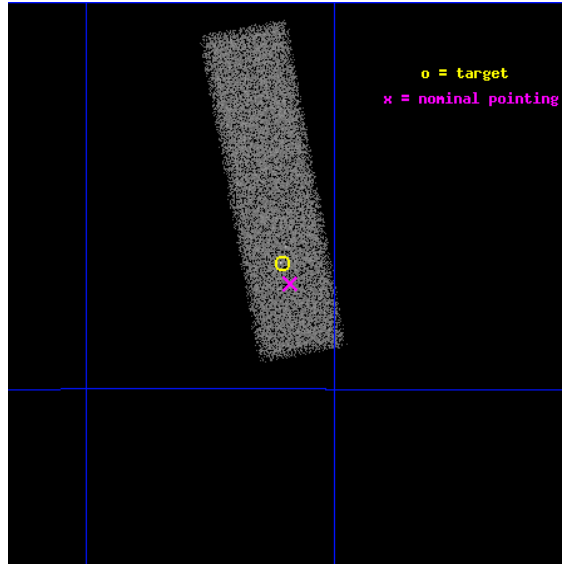
L2 Processing Date : Oct 15 2012

## 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

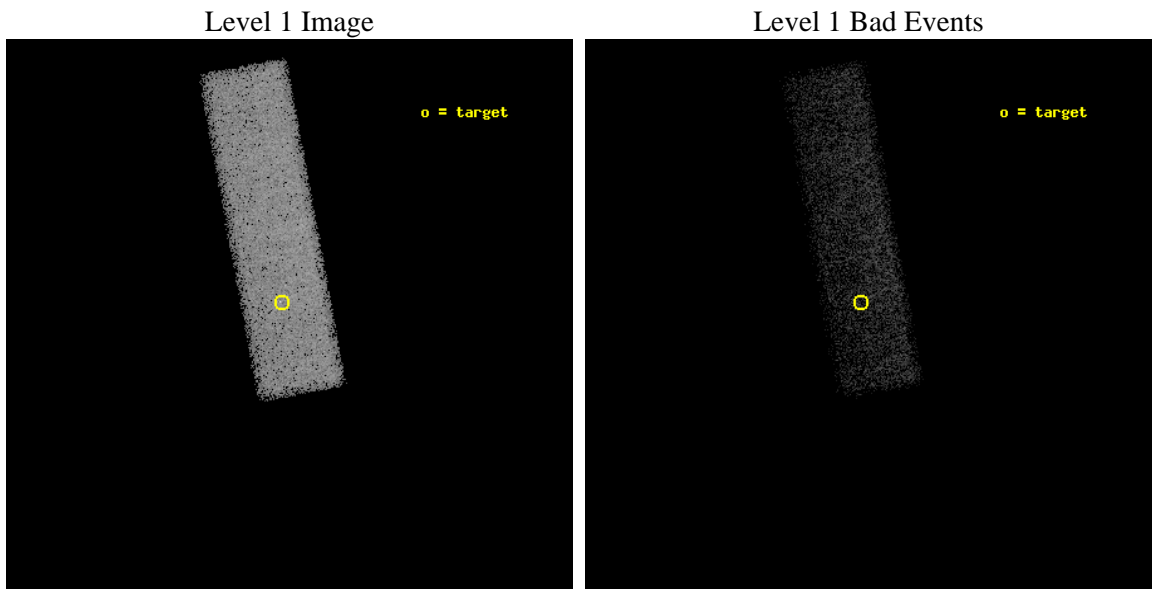
seq_num	400281	Sequence number
obs_id	3794	Observation id
title	MONITORING TWO QUASI-PERSISTENT X-RAY BINARIES IN QUIESCENCE	Propo
observer	Dr. Rudy Wijnands	Principal investigator
object	MXB 1659-298	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.526667	Observer's specified target RA [deg]
dec_targ	-29.945639	Observer's specified target Dec [deg]
ra_nom	255.52271633498	Nominal RA [deg]
dec_nom	-29.954716323868	Nominal Dec [deg]
roll_nom	259.49206974747	Nominal Roll [deg]
revision	3	Processing version of data
ontime	28423.159413487	Sum of GTIs [s]
livetime	27036.202238644	Livetime [s]
ontime7	28423.159413487	Sum of GTIs [s]
l2events	29302	Number of level 2 events



## 2 OBI

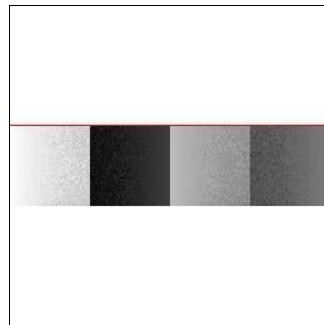
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	28423.159413487	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime7	28423.159413487	Sum of GTIs [s]
date	2012-10-15T13:20:29	Date and time of file creation	l1events	66274	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

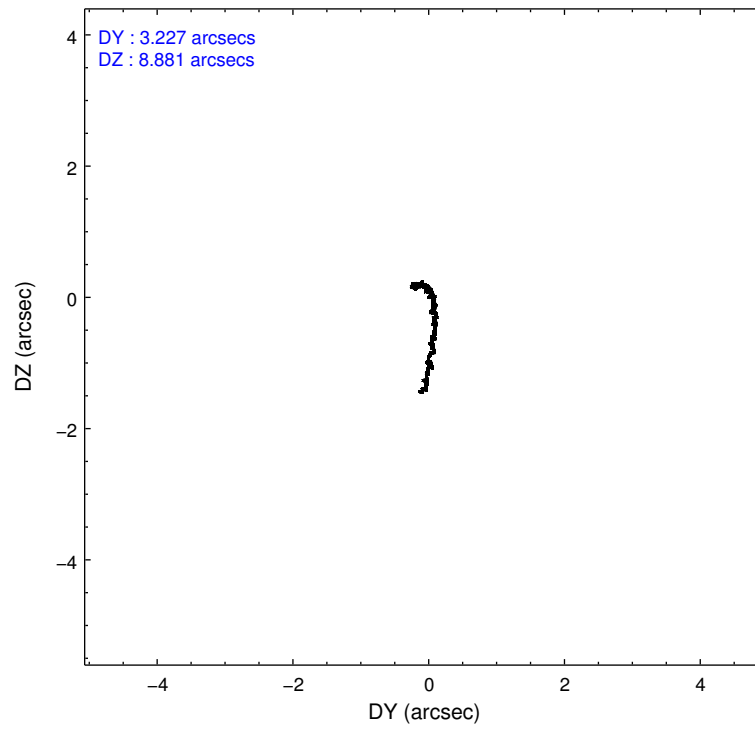
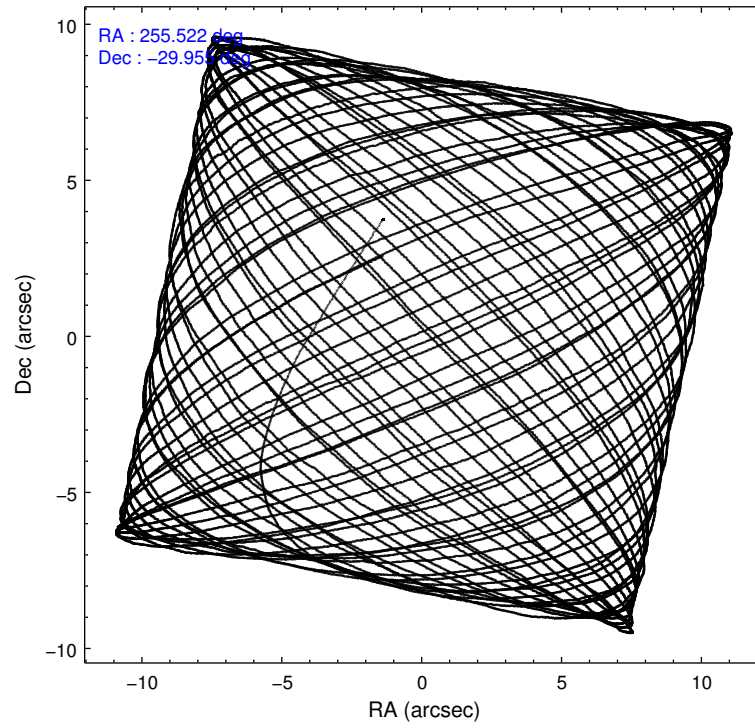
	<b>ccd 7</b>
level 1 events	66274
rejected events	35977
rejected %	54%

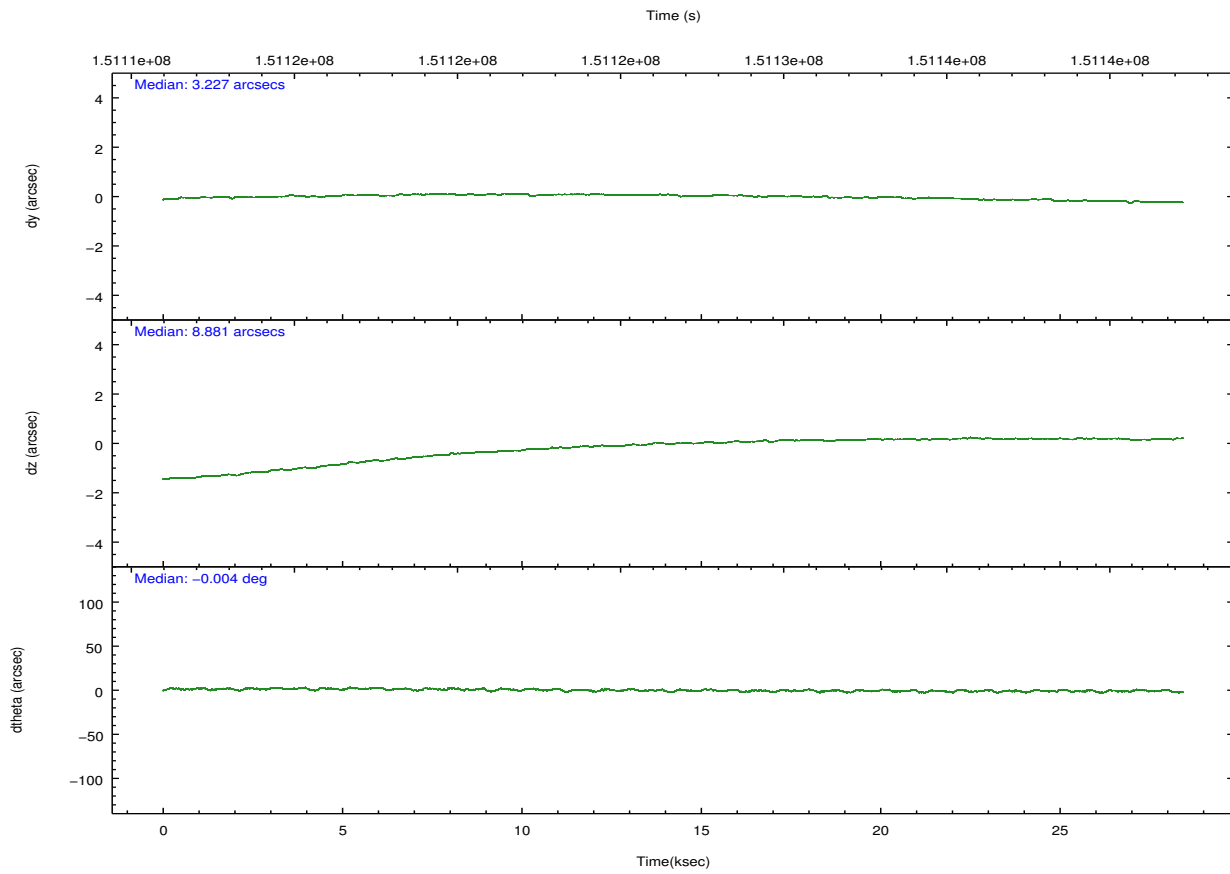
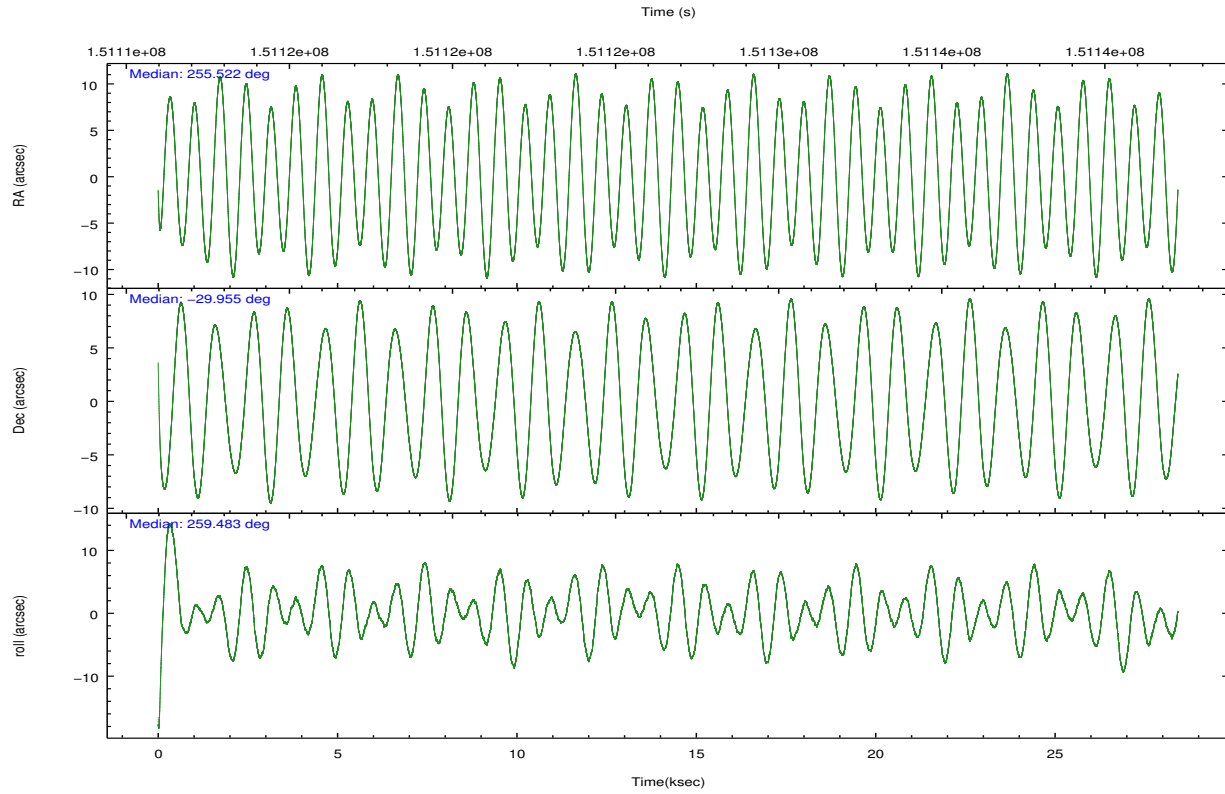
	<b>ccd 7</b>
grade 0 events	3490
	5%
grade 1 events	66
	0%
grade 2 events	6190
	9%
grade 3 events	3502
	5%
grade 4 events	3354
	5%
grade 5 events	6249
	9%
grade 6 events	14182
	21%
grade 7 events	29241
	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	255.511855	255.5227163349751	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-29.929144	-29.9547163238682	Subarray start row	384	385
[deg] Pointing Roll	259.330030	259.4920697474741	Subarray row count	256	256
[s] Window start time (MET)	149731264.184000	149731264.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	151891264.184000	151891264.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	151112824.184000	151111742.65263			
Observation start date	2002-10-15T23:46:00	2002-10-15T23:29:02			
[s] Observation end time (MET)	151140824.184000	151141517.87886			
Observation end date	2002-10-16T07:32:40	2002-10-16T07:45:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect



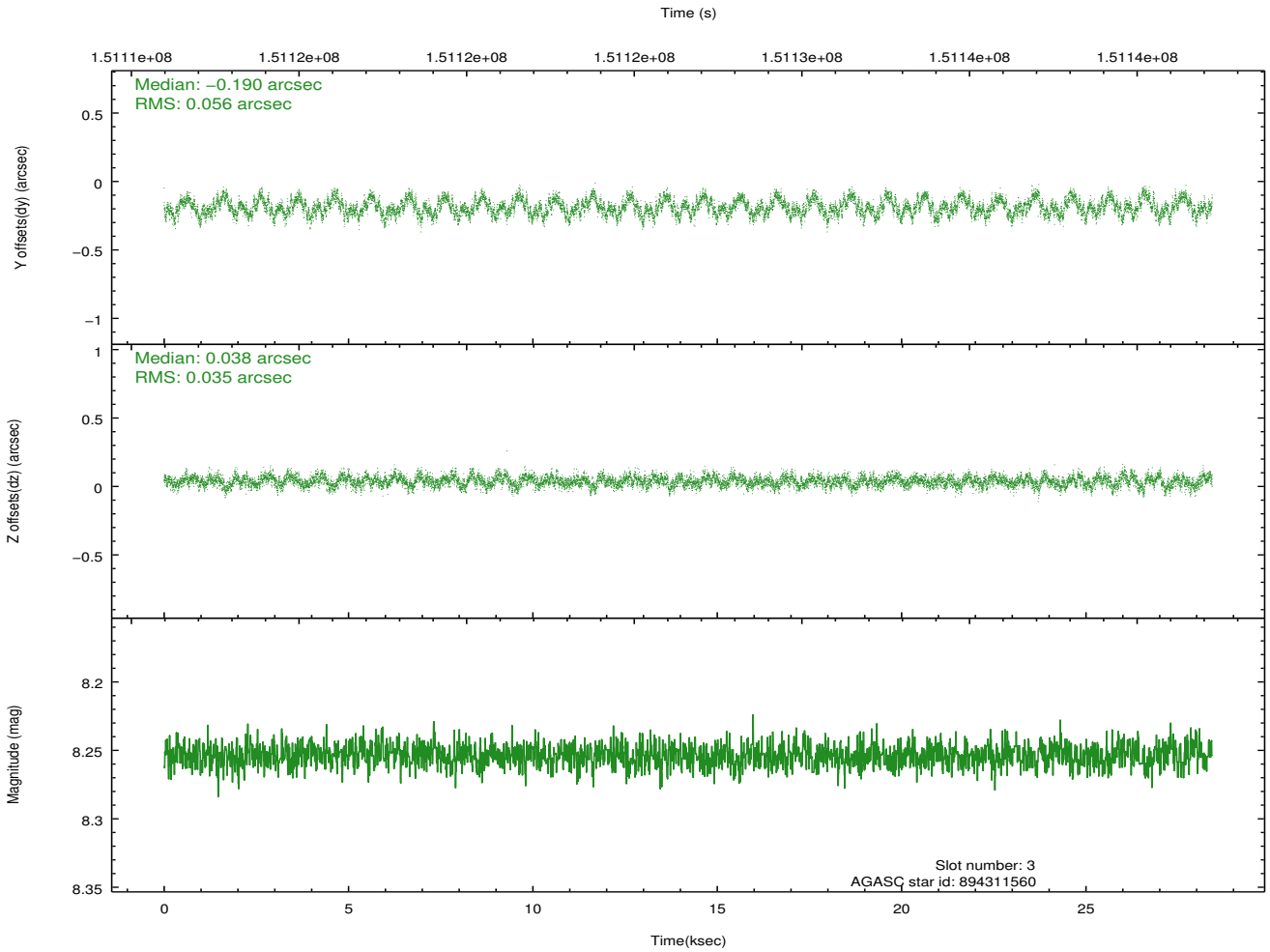
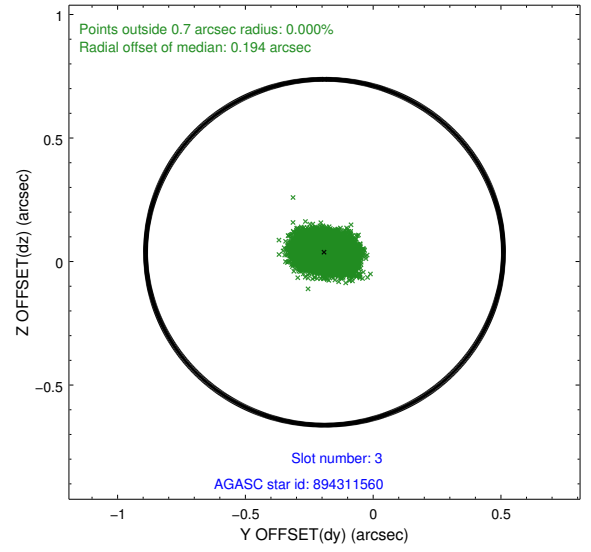
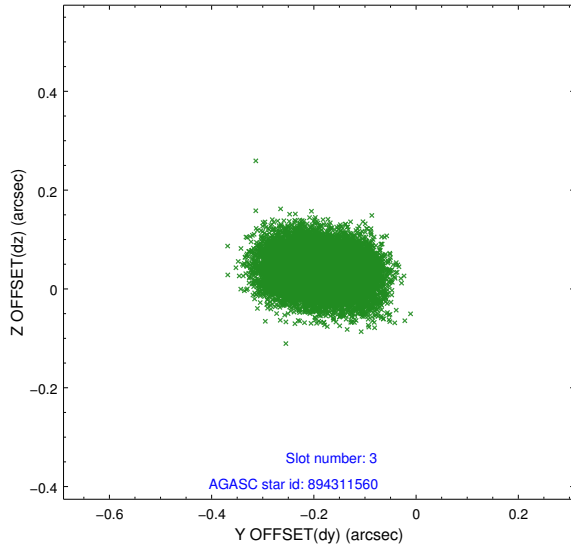


### Slot Statistics

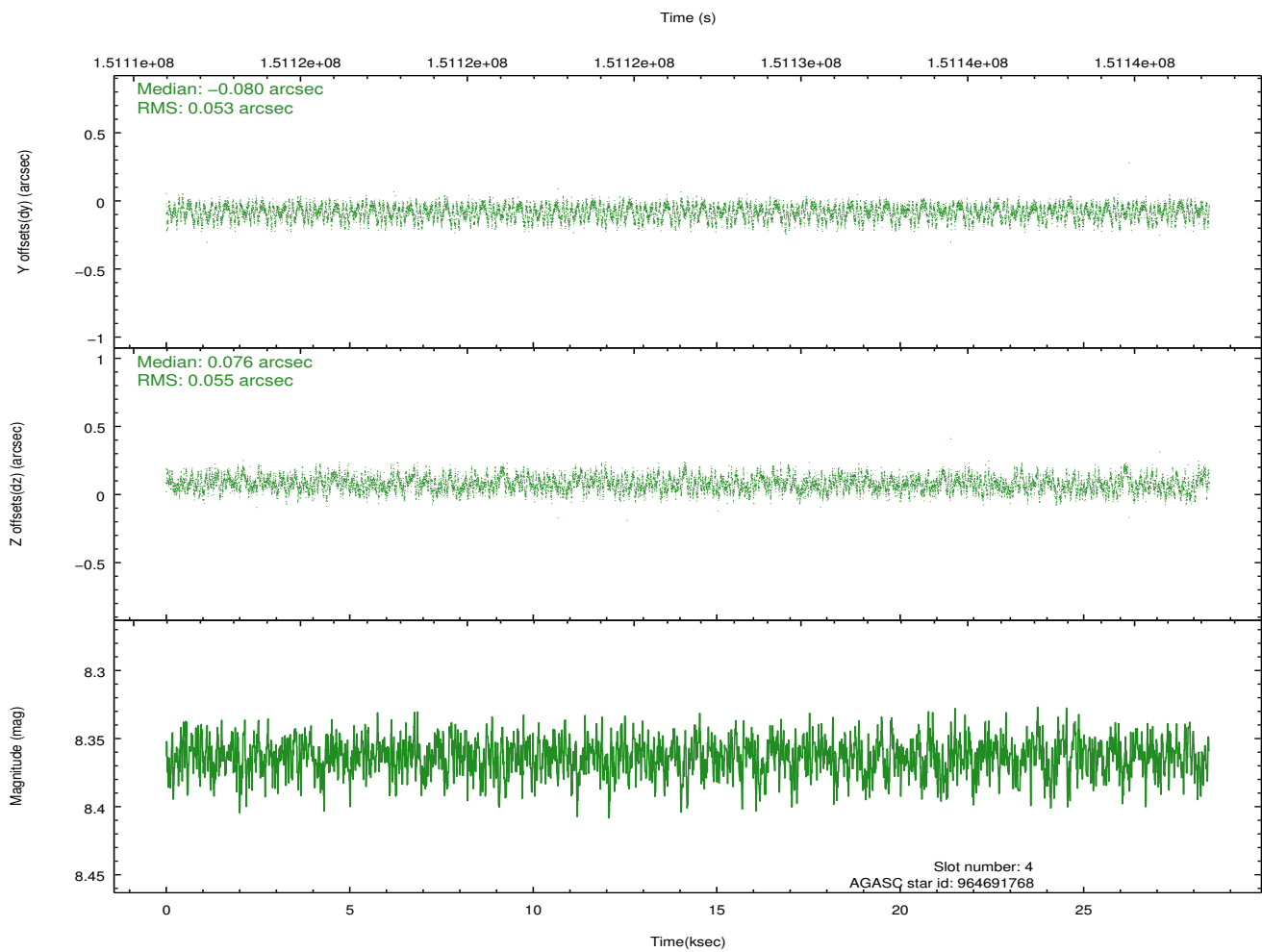
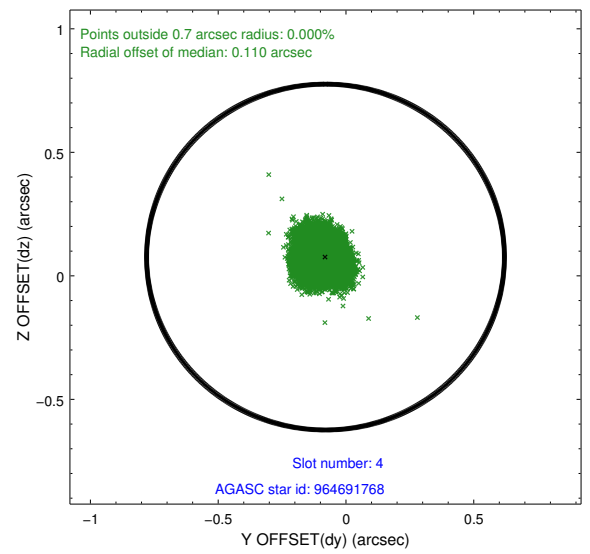
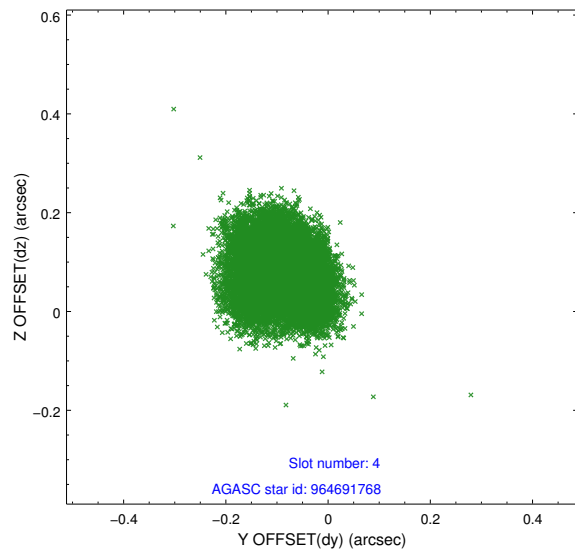
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6932	-0.022	-0.012	0.013	0.022	0.000000	0.000000	-755.88	-1729.86
1	FID	ACIS-S-4	7.19	6931	0.017	0.014	0.011	0.019	0.000000	0.000000	2157.40	178.56
2	FID	ACIS-S-5	7.23	6934	-0.026	0.007	0.012	0.020	0.000000	0.000000	-1808.62	172.32
3	GUIDE	894311560	8.25	13859	-0.190	0.038	0.071	0.114	255.968048	-29.561250	-1563.70	1159.66
4	GUIDE	964691768	8.36	13863	-0.080	0.076	0.083	0.127	256.279938	-30.028521	-84.45	2421.13
5	GUIDE	894191616	9.46	13860	-0.370	-0.037	0.119	0.184	254.985496	-29.335021	-1792.52	-2018.17
6	GUIDE	964693496	8.88	13862	0.543	0.134	0.086	0.137	255.191226	-30.516598	2264.18	-584.36
7	GUIDE	964702672	9.49	13858	0.104	-0.209	0.119	0.197	254.750357	-30.472308	2367.35	-1957.67

## 2.4 Star Slots

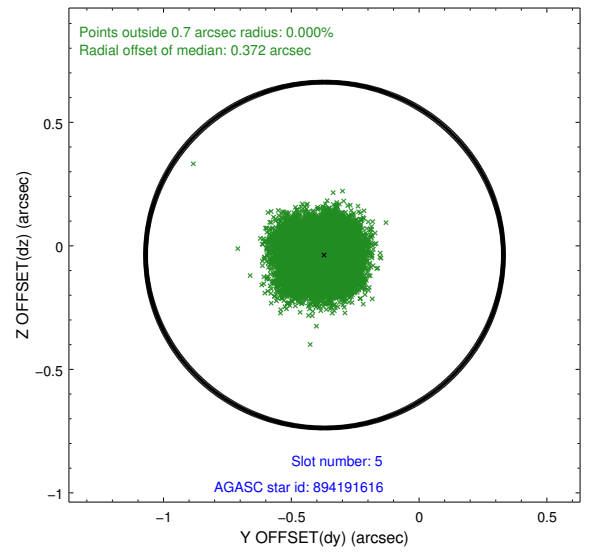
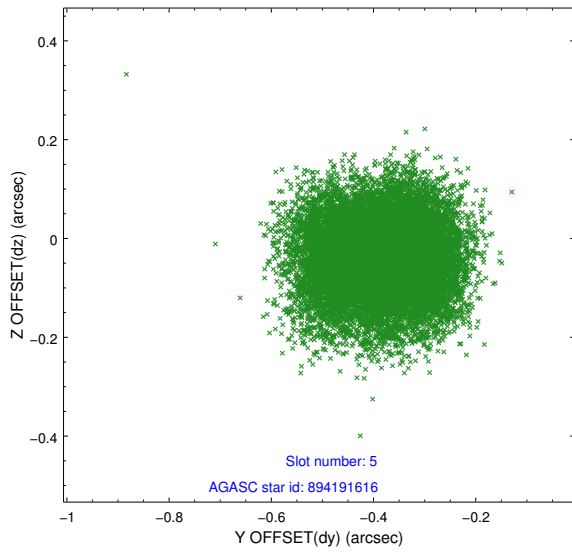
### 2.4.1 Slot 3



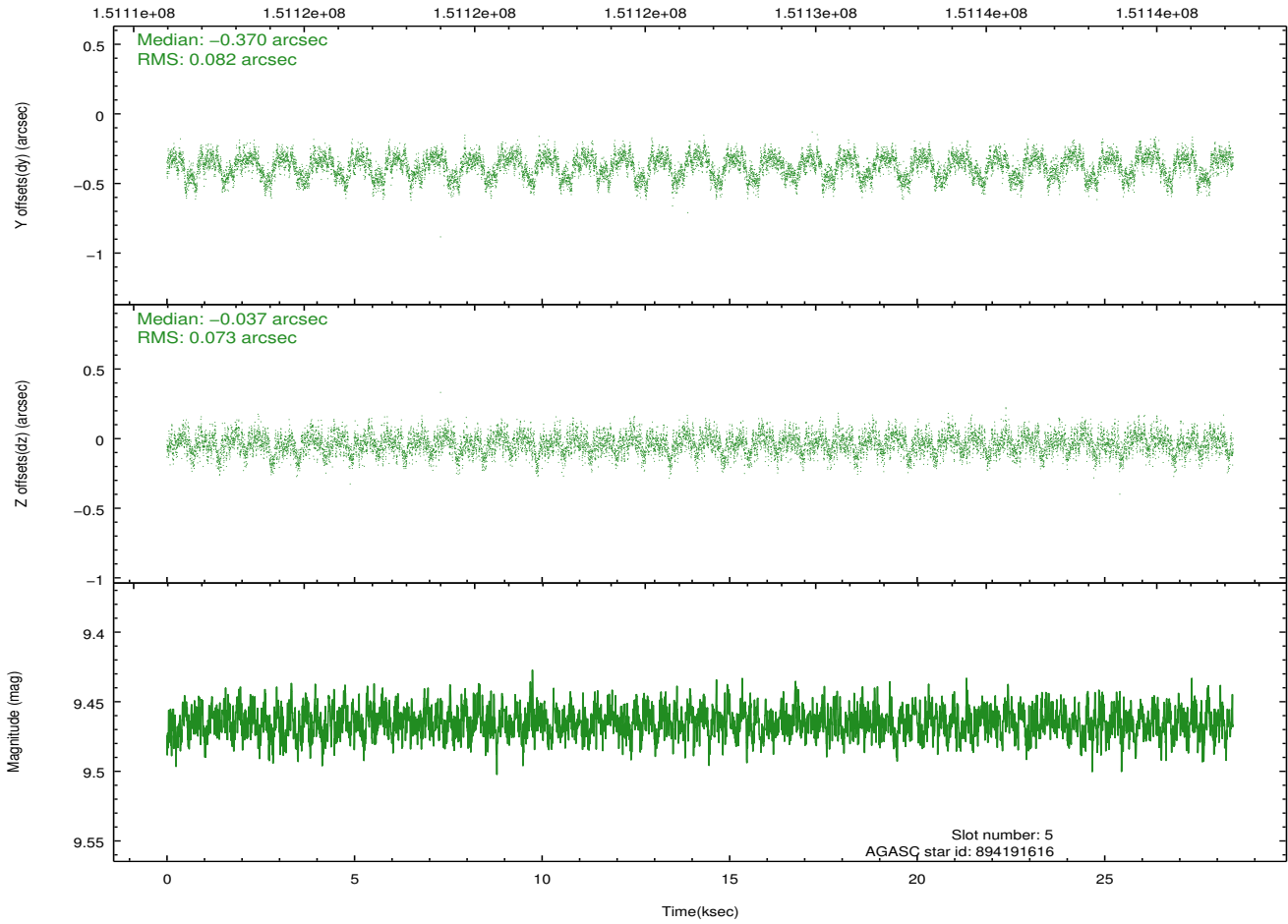
## 2.4.2 Slot 4



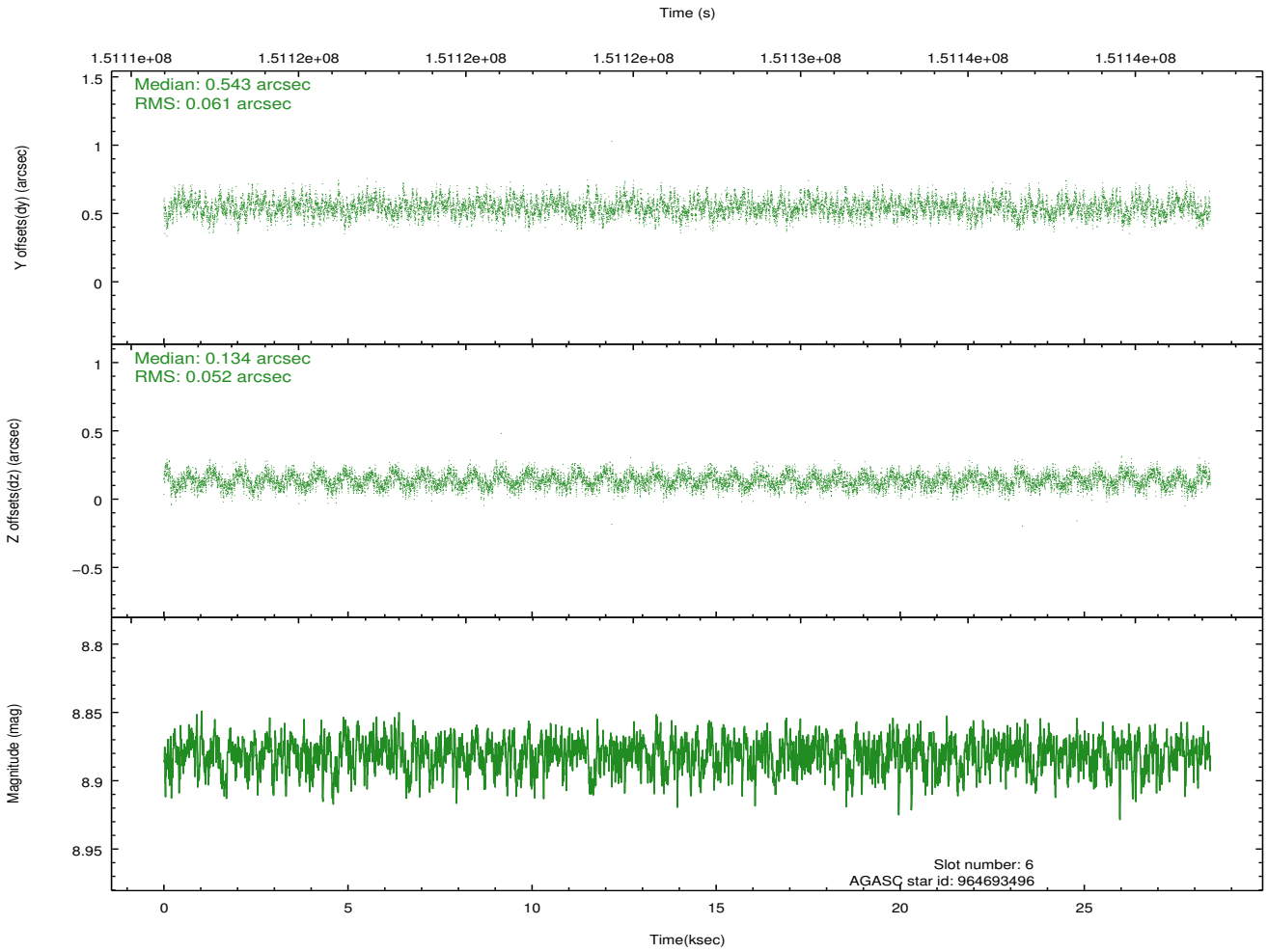
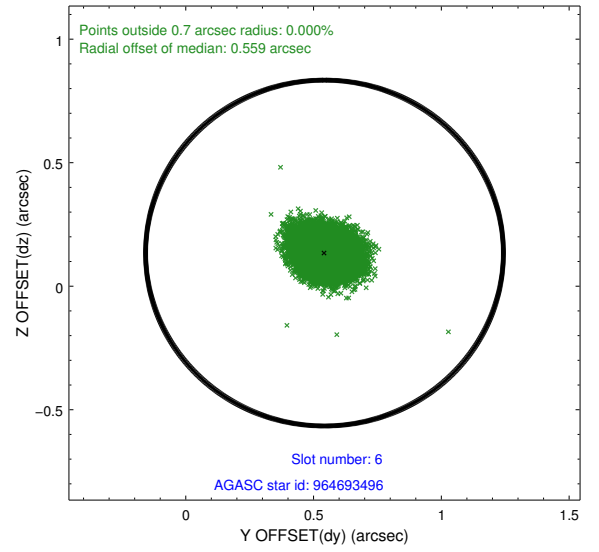
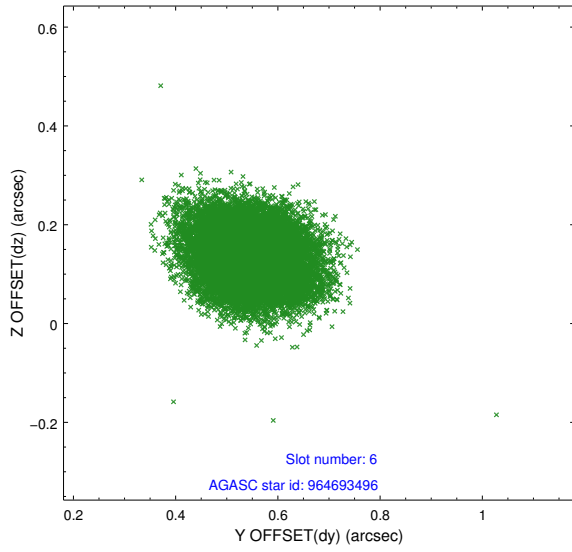
### 2.4.3 Slot 5



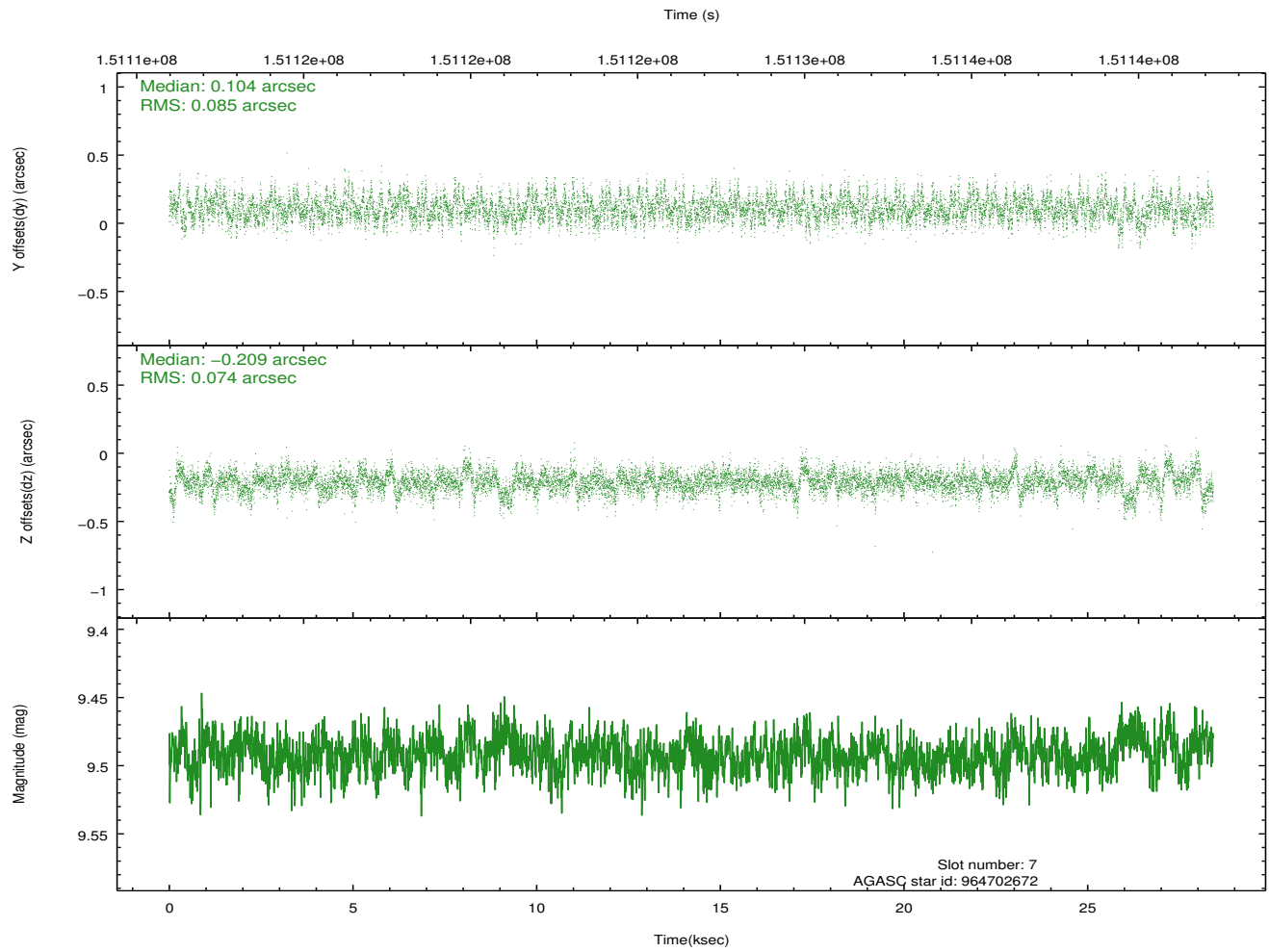
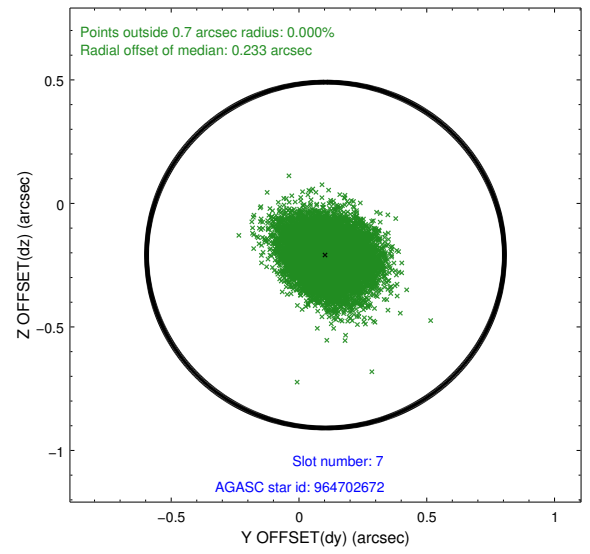
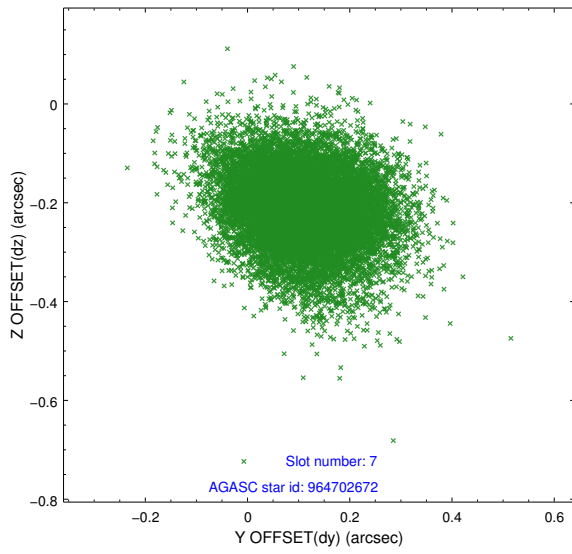
Time (s)



### 2.4.4 Slot 6

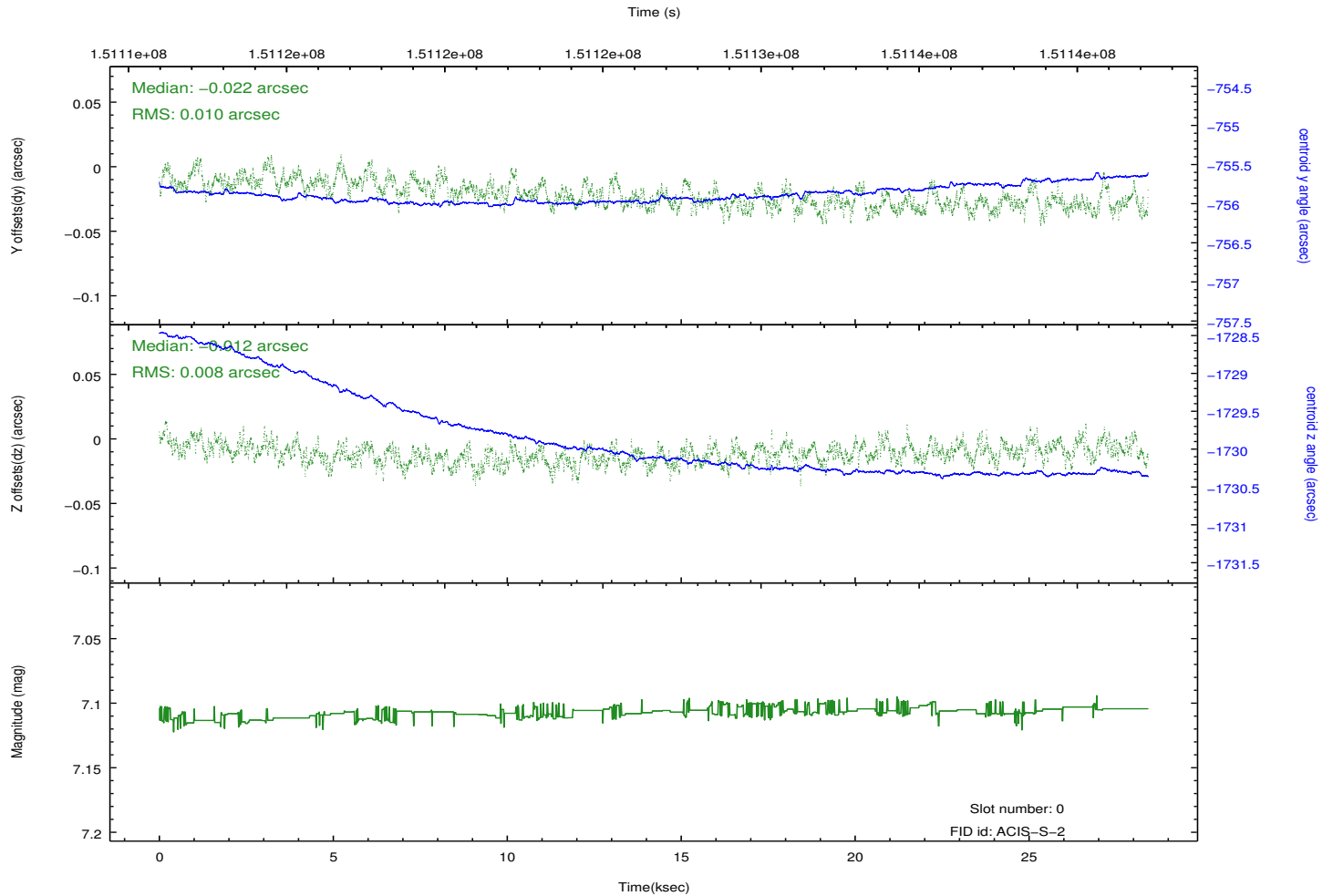
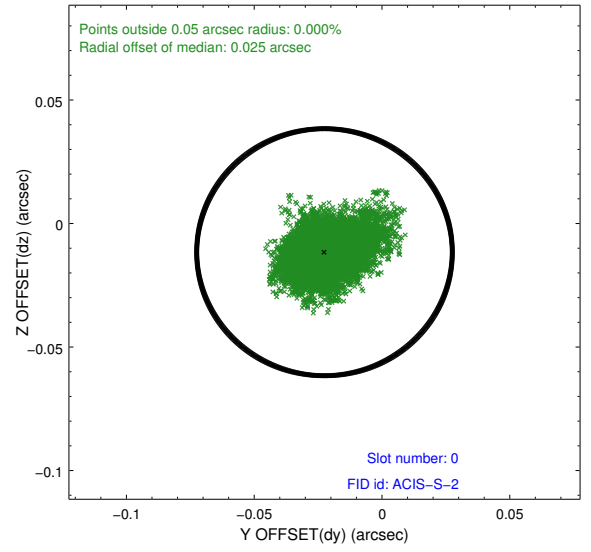
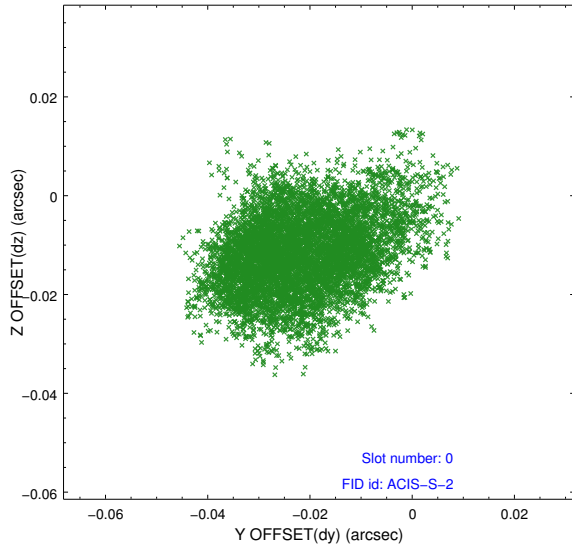


## 2.4.5 Slot 7

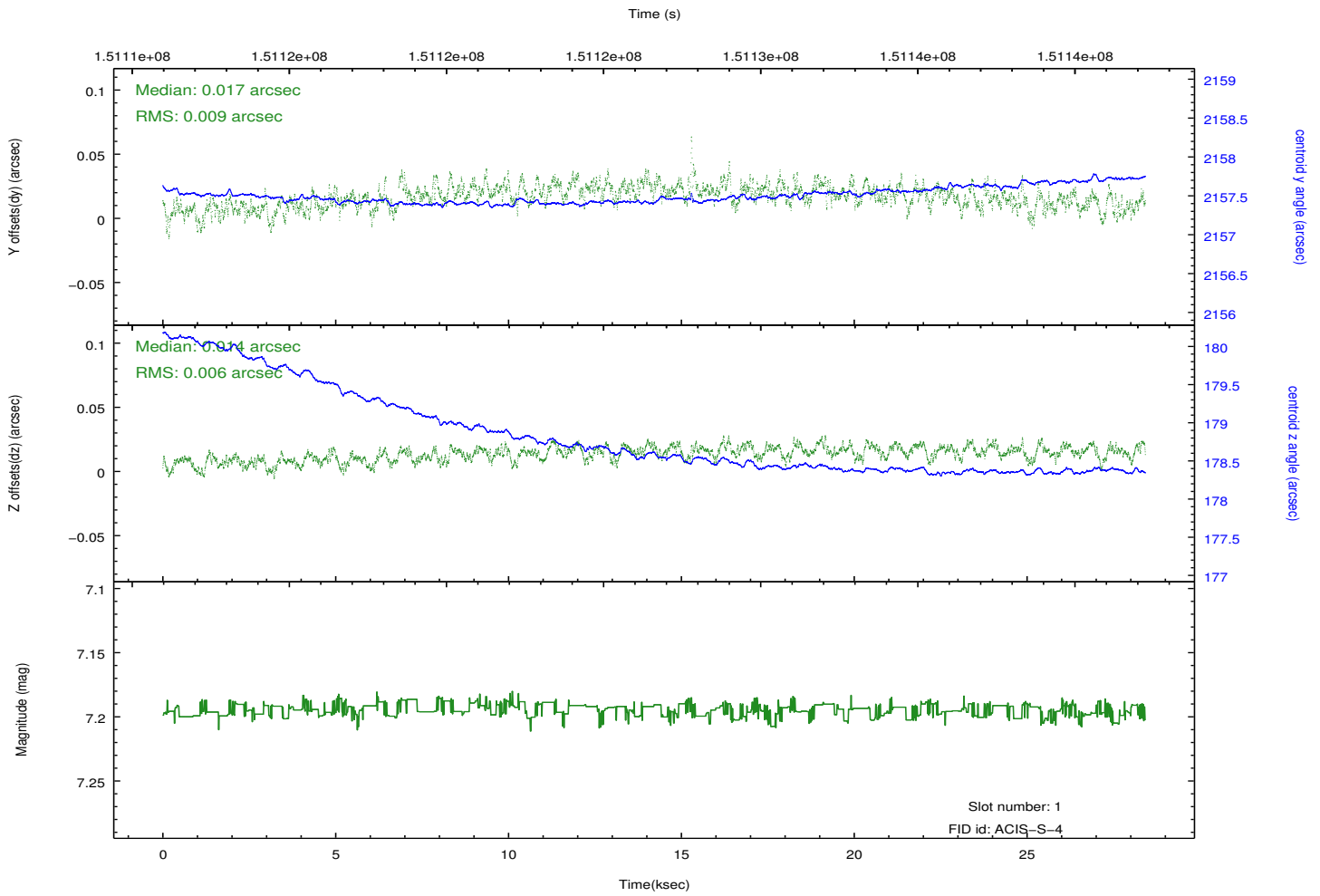
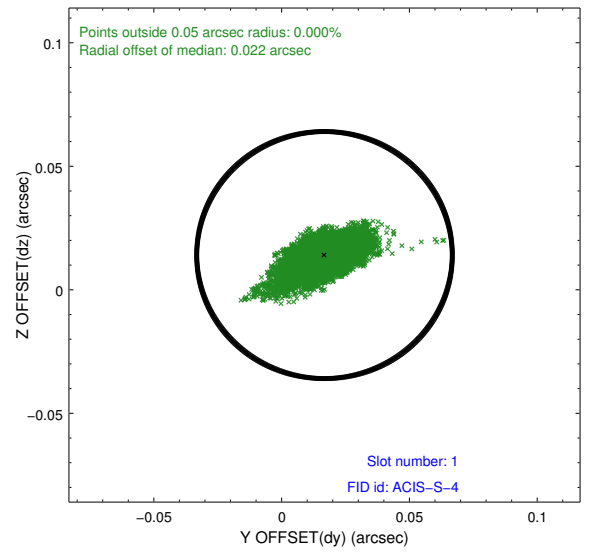
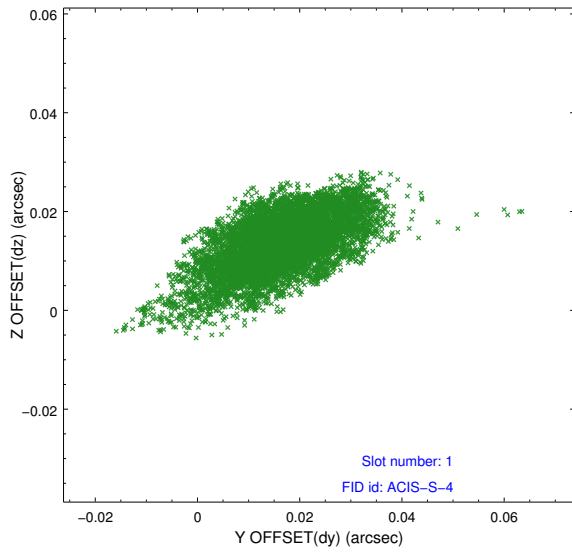


## 2.5 FID Slots

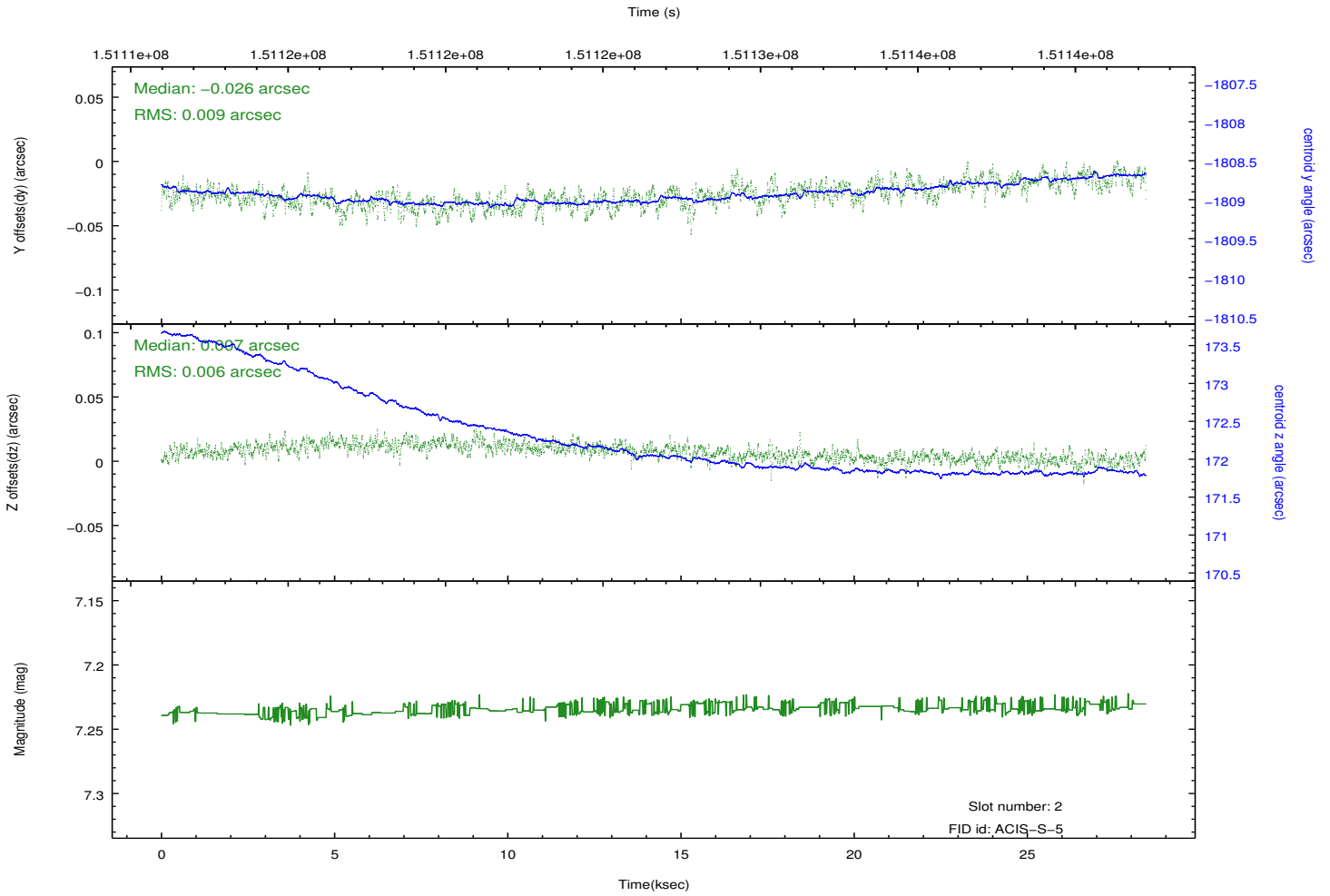
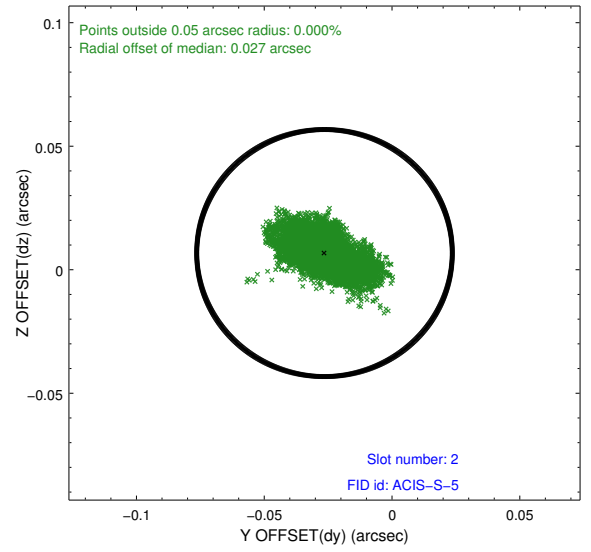
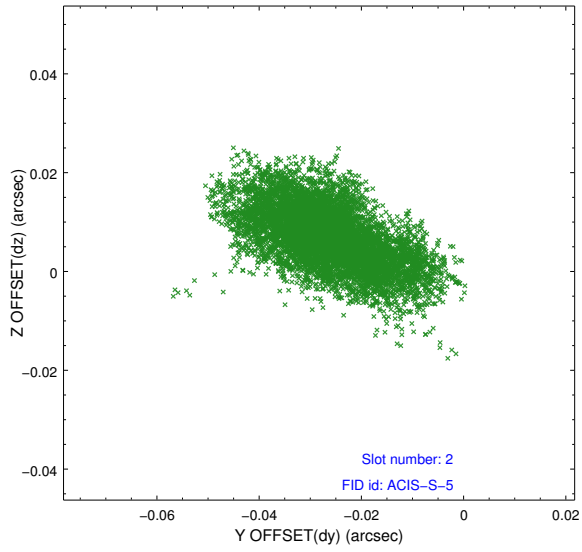
### 2.5.1 Slot 0



## 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)	2012.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.423

## A.2 Comments

Window constraint met.