

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11812 - L2 Version 2  
Chandra X-Ray Center

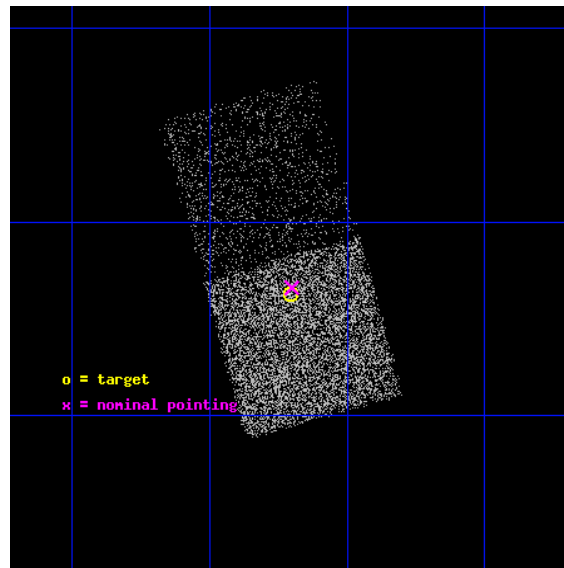
L2 Processing Date : Jun 14 2012

## 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

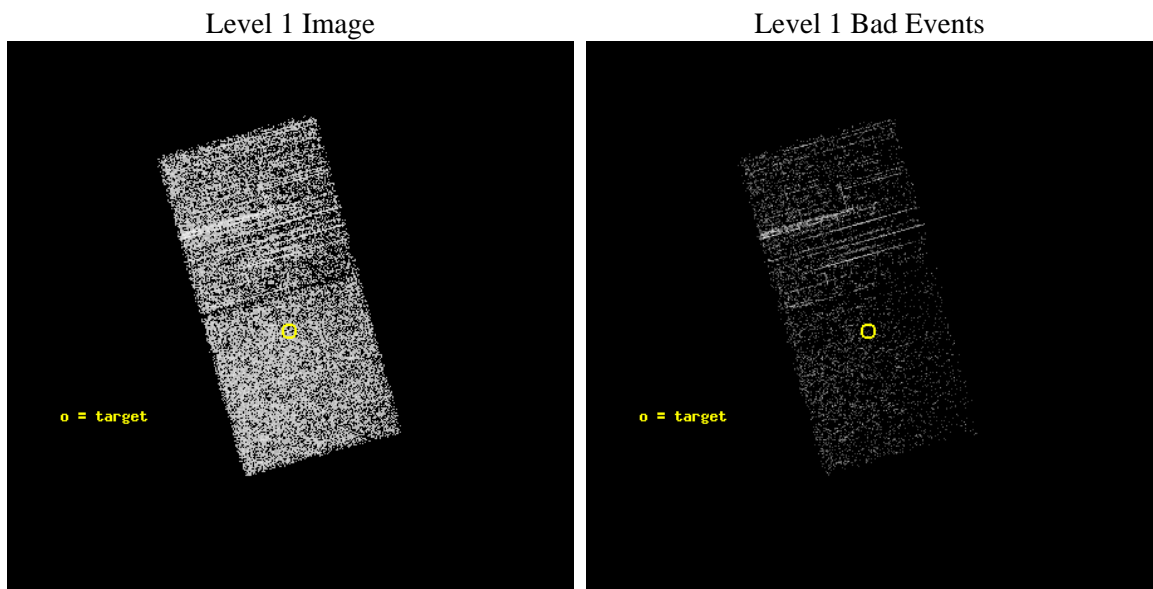
seq_num	401128	Sequence number
obs_id	11812	Observation id
title	Chandra follow-up of X-ray sources in interacting galaxies	Proposa
observer	Dr Jelle Kaastra	Principal investigator
object	SDSSJ085312.3+162619	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.301667	Observer's specified target RA [deg]
dec_targ	16.43875	Observer's specified target Dec [deg]
ra_nom	133.30031657321	Nominal RA [deg]
dec_nom	16.443476890687	Nominal Dec [deg]
roll_nom	74.45106282755	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2157.0	Sum of GTIs [s]
livetime	2127.8904585274	Livetime [s]
ontime6	2157.0	Sum of GTIs [s]
ontime7	2157.0	Sum of GTIs [s]
l2events	11064	Number of level 2 events



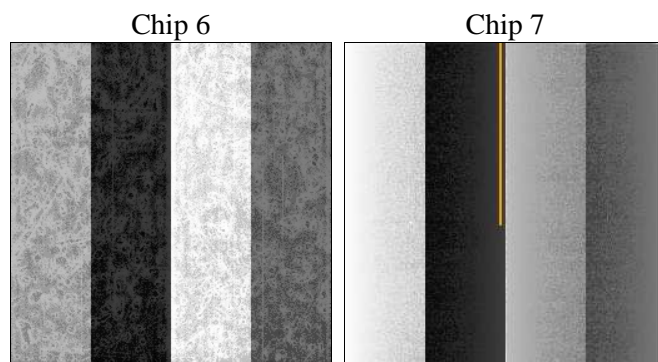
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2157.0	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime6	2157.0	Sum of GTIs [s]
date	2012-06-15T01:03:05	Date and time of file creation	ontime7	2157.0	Sum of GTIs [s]
revision	2	Processing version of data	l1events	40787	Number of level 1 events

### 2.1.4 Events

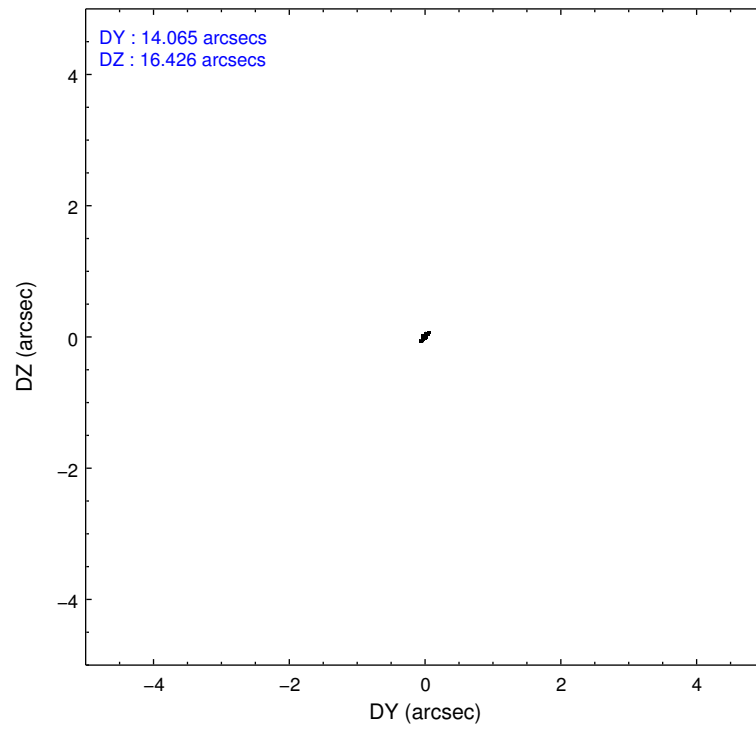
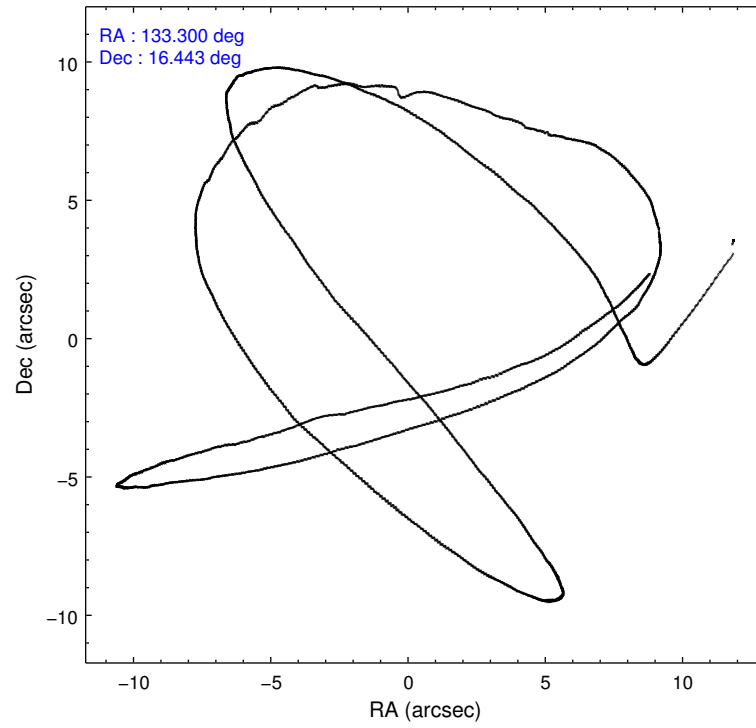
	ccd 6	ccd 7
level 1 events	19118	21669
rejected events	17252	11890
rejected %	90%	54%

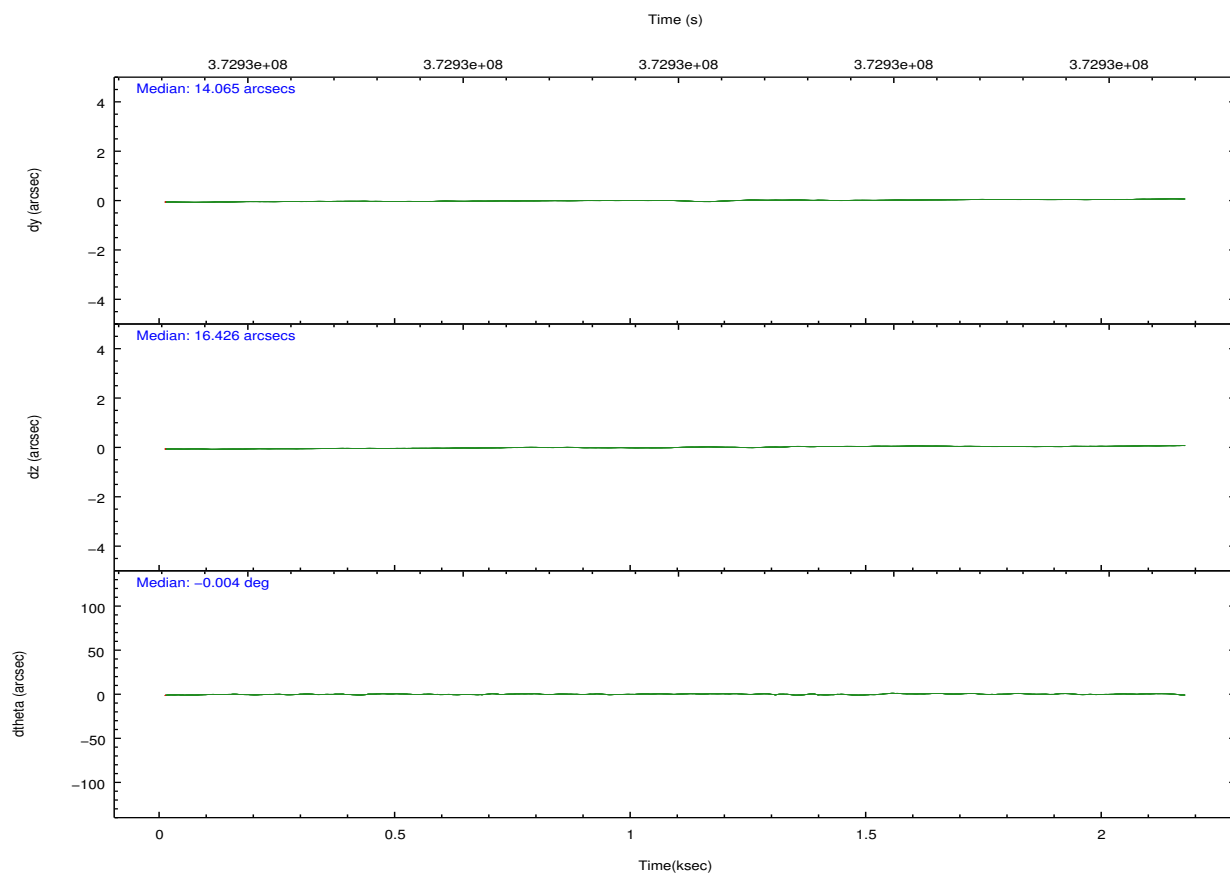
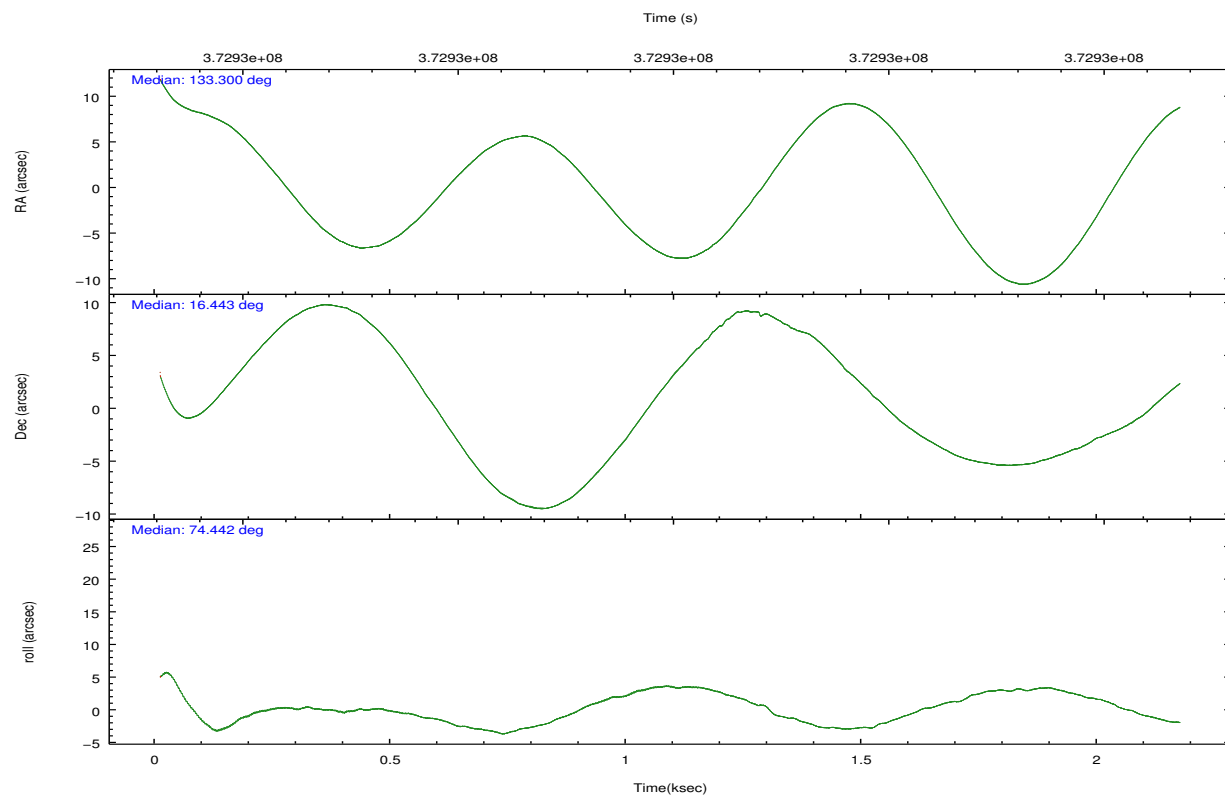
	ccd 6	ccd 7
grade 0 events	627	923
	3%	4%
grade 1 events	13	22
	0%	0%
grade 2 events	419	2106
	2%	9%
grade 3 events	204	881
	1%	4%
grade 4 events	215	870
	1%	4%
grade 5 events	766	2208
	4%	10%
grade 6 events	421	5089
	2%	23%
grade 7 events	16453	9570
	86%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	133.307747	133.3003165732108	CCD I2 on	N	N
[deg] Pointing Dec	16.417027	16.44347689068665	CCD I3 on	N	N
[deg] Pointing Roll	74.292300	74.45106282754993	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	372928083.184000	372927142.67089	CCD S5 on	N	N
Observation start date	2009-10-26T07:06:57	2009-10-26T06:52:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	372930083.184000	372930884.94608	On-chip summing requested	N	N
Observation end date	2009-10-26T07:40:17	2009-10-26T07:54:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3

## 2.3 Aspect





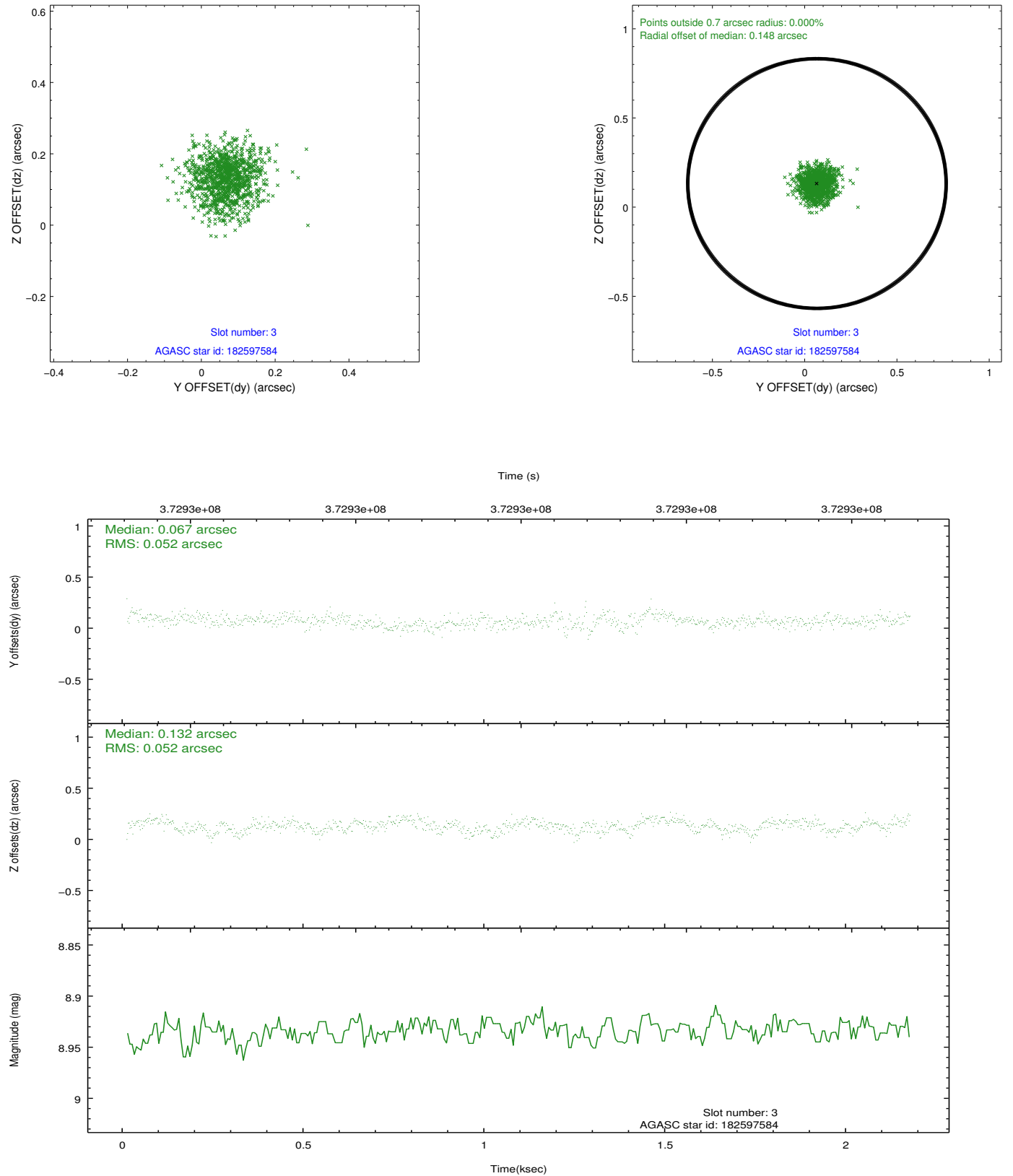
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	529	-0.052	-0.020	0.006	0.010	0.000000	0.000000	-767.07	-1737.86
1	FID	ACIS-S-4	6.96	529	0.189	0.030	0.005	0.009	0.000000	0.000000	2145.08	167.53
2	FID	ACIS-S-5	6.99	529	-0.168	-0.002	0.006	0.009	0.000000	0.000000	-1816.16	164.61
3	GUIDE	182597584	8.93	1056	0.067	0.132	0.077	0.126	133.231559	15.817132	-2150.36	-330.38
4	GUIDE	182602600	7.75	1056	-0.143	-0.266	0.070	0.116	133.244753	16.356877	-269.95	150.71
5	GUIDE	182717472	8.90	1057	0.048	0.215	0.090	0.140	133.637610	15.681948	-2237.25	-1816.15
6	GUIDE	182719208	8.50	1057	0.050	0.123	0.080	0.138	133.811207	16.211642	-240.55	-1876.02
7	GUIDE	182597712	8.76	1056	-0.021	-0.205	0.068	0.119	132.739270	15.901123	-2319.12	1390.78

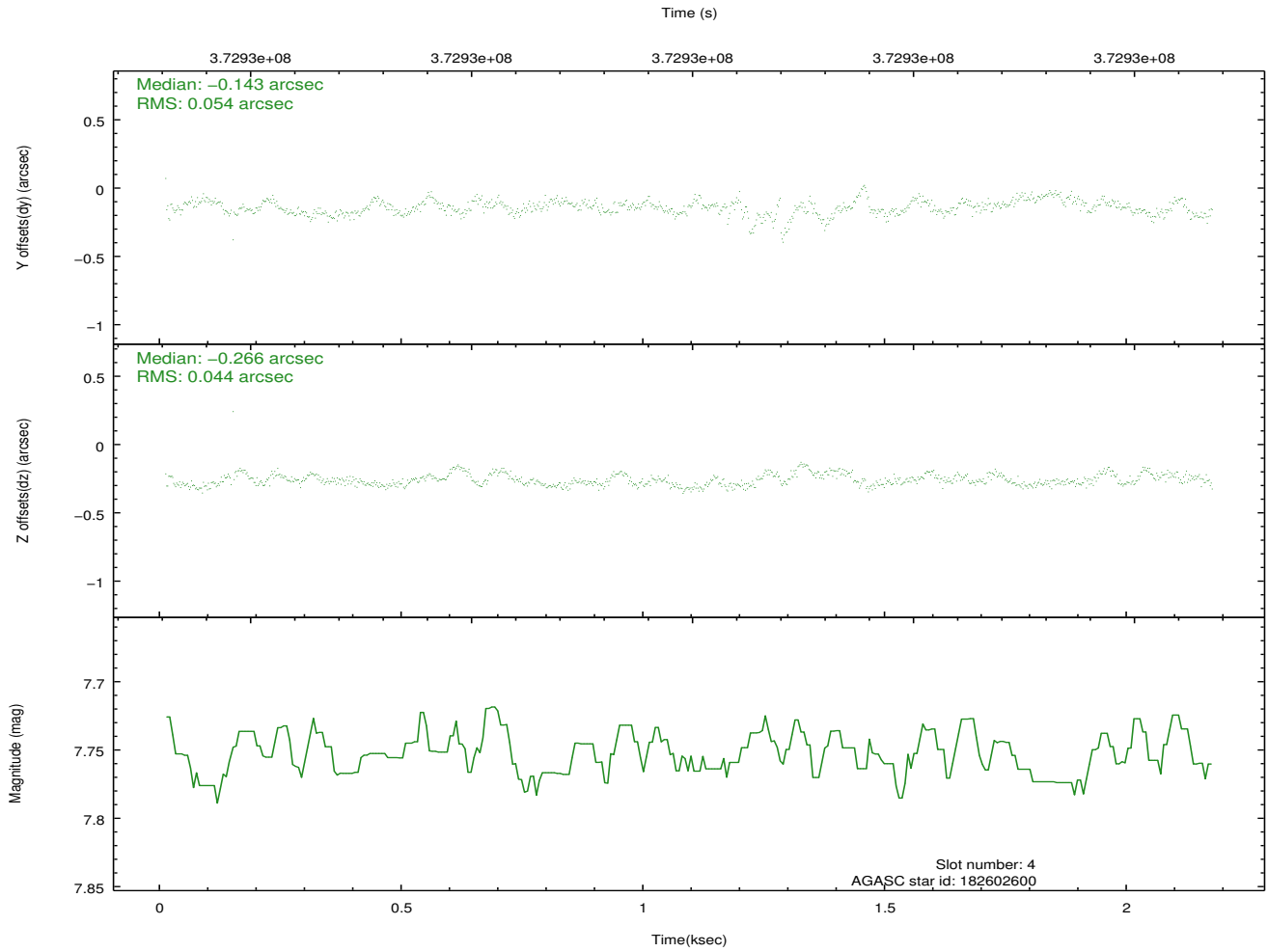
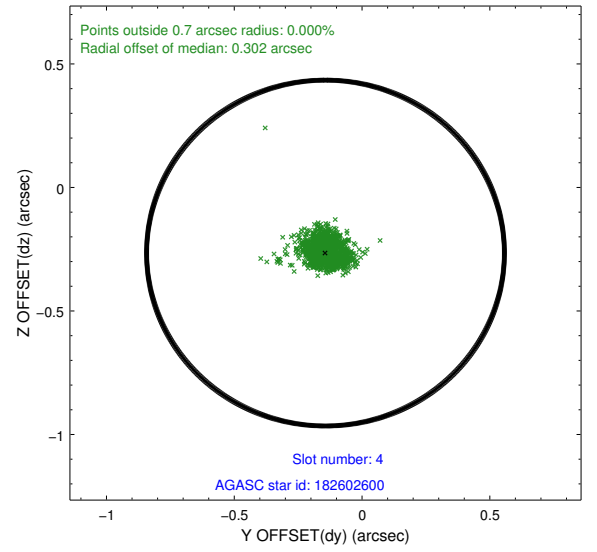
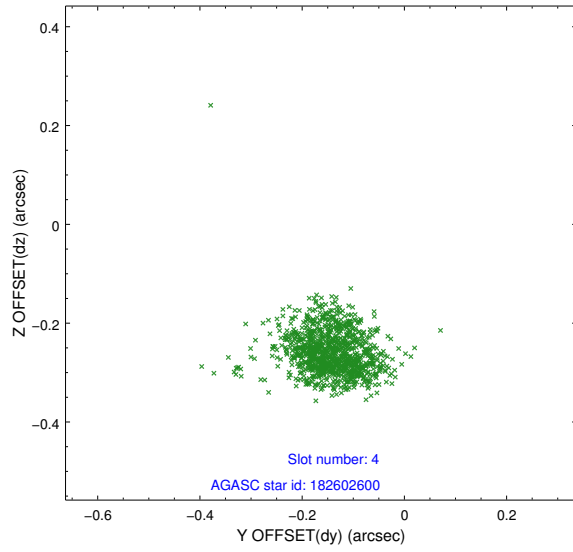


## 2.4 Star Slots

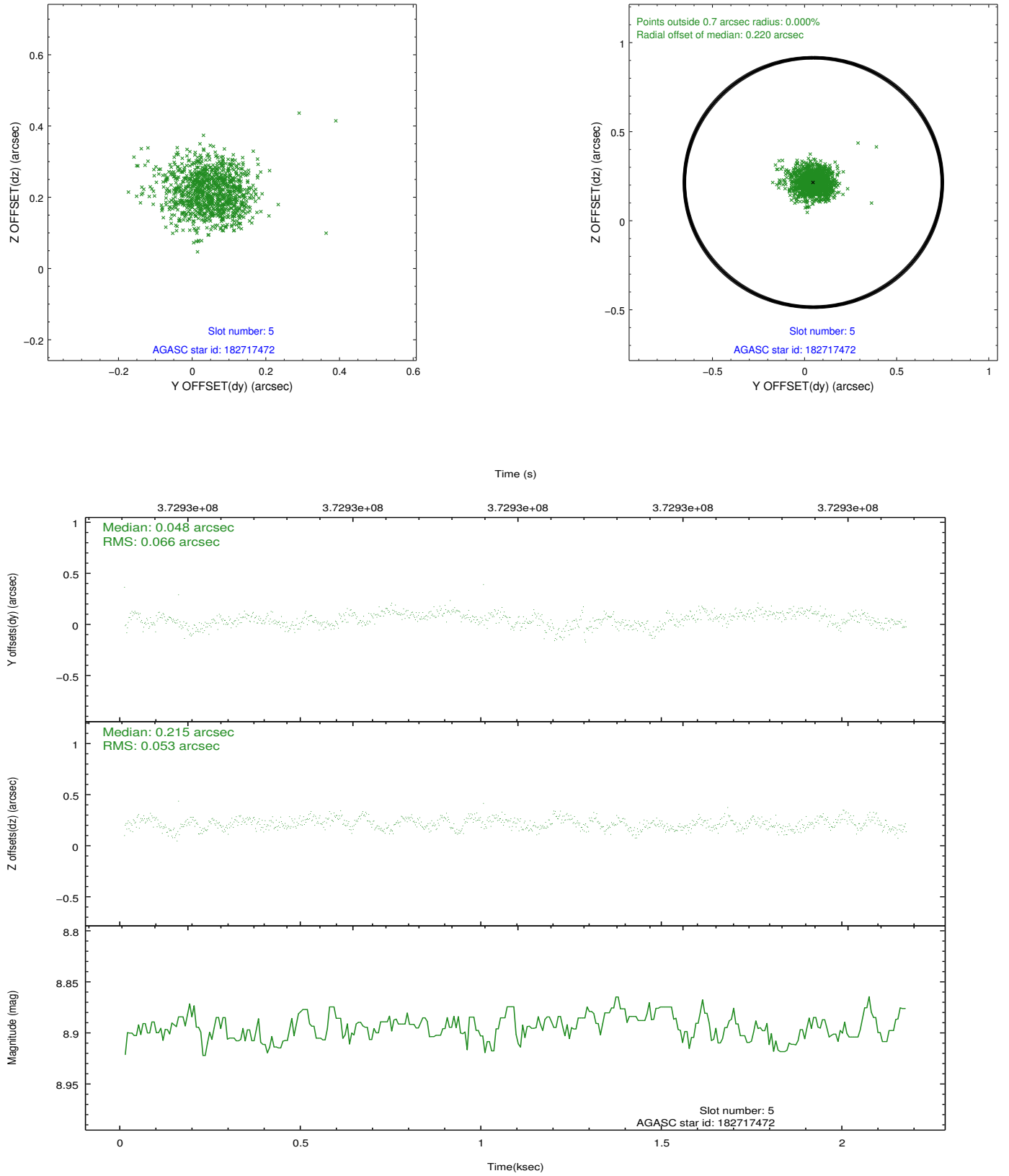
### 2.4.1 Slot 3



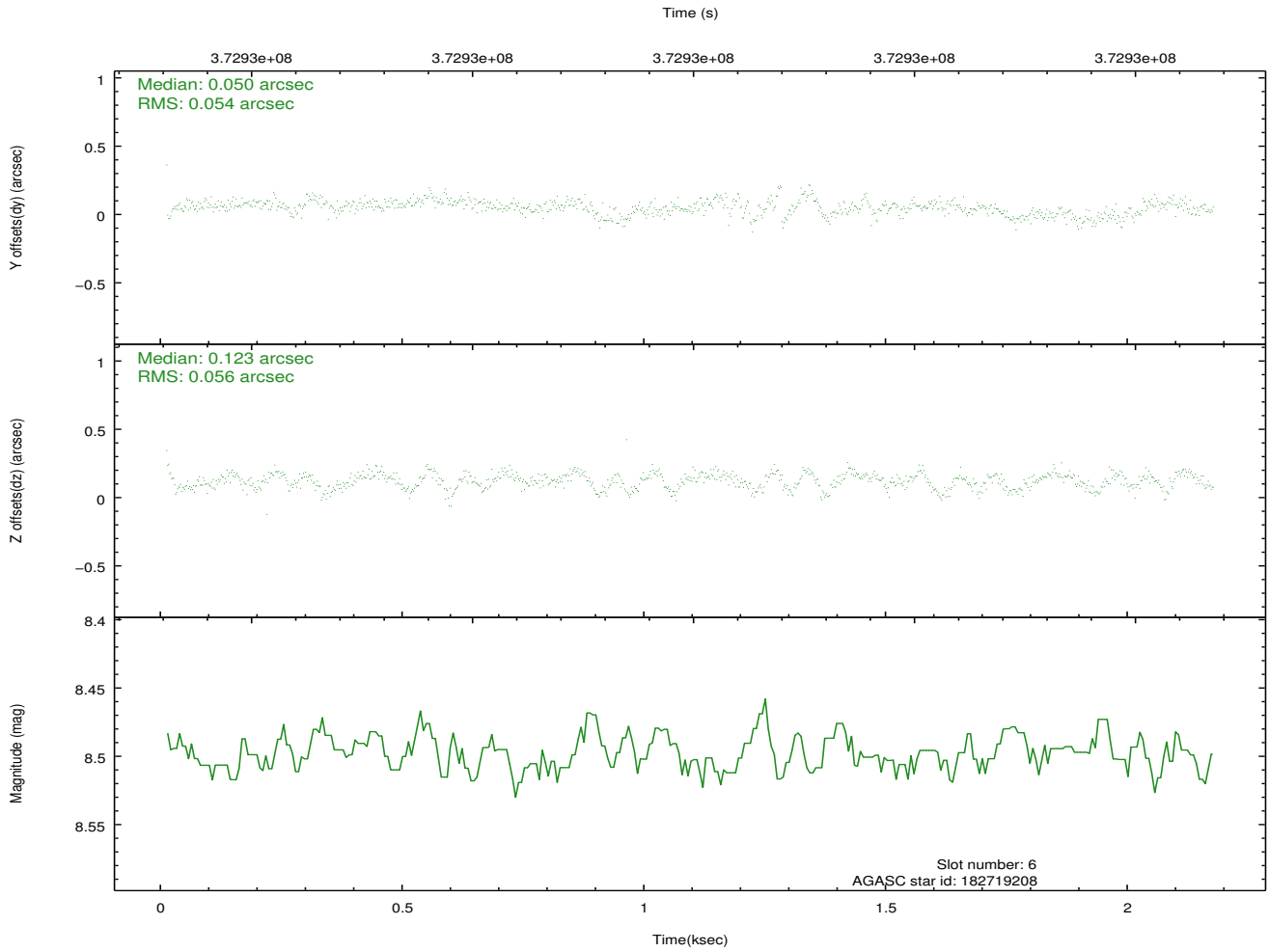
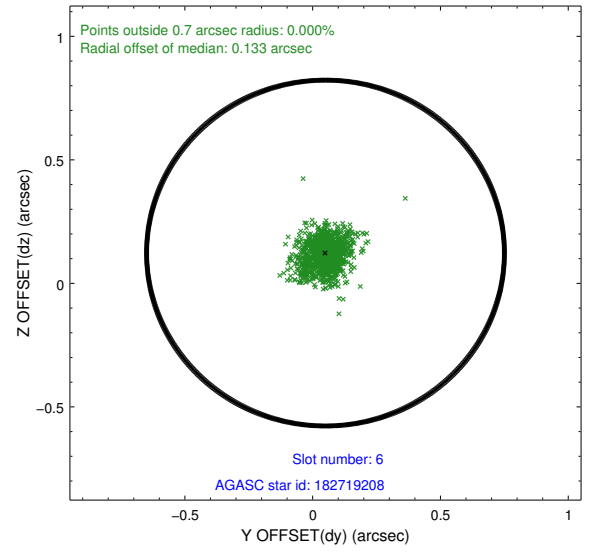
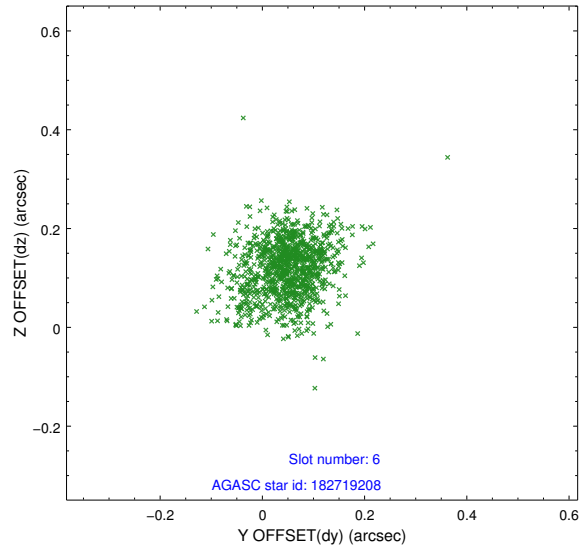
## 2.4.2 Slot 4



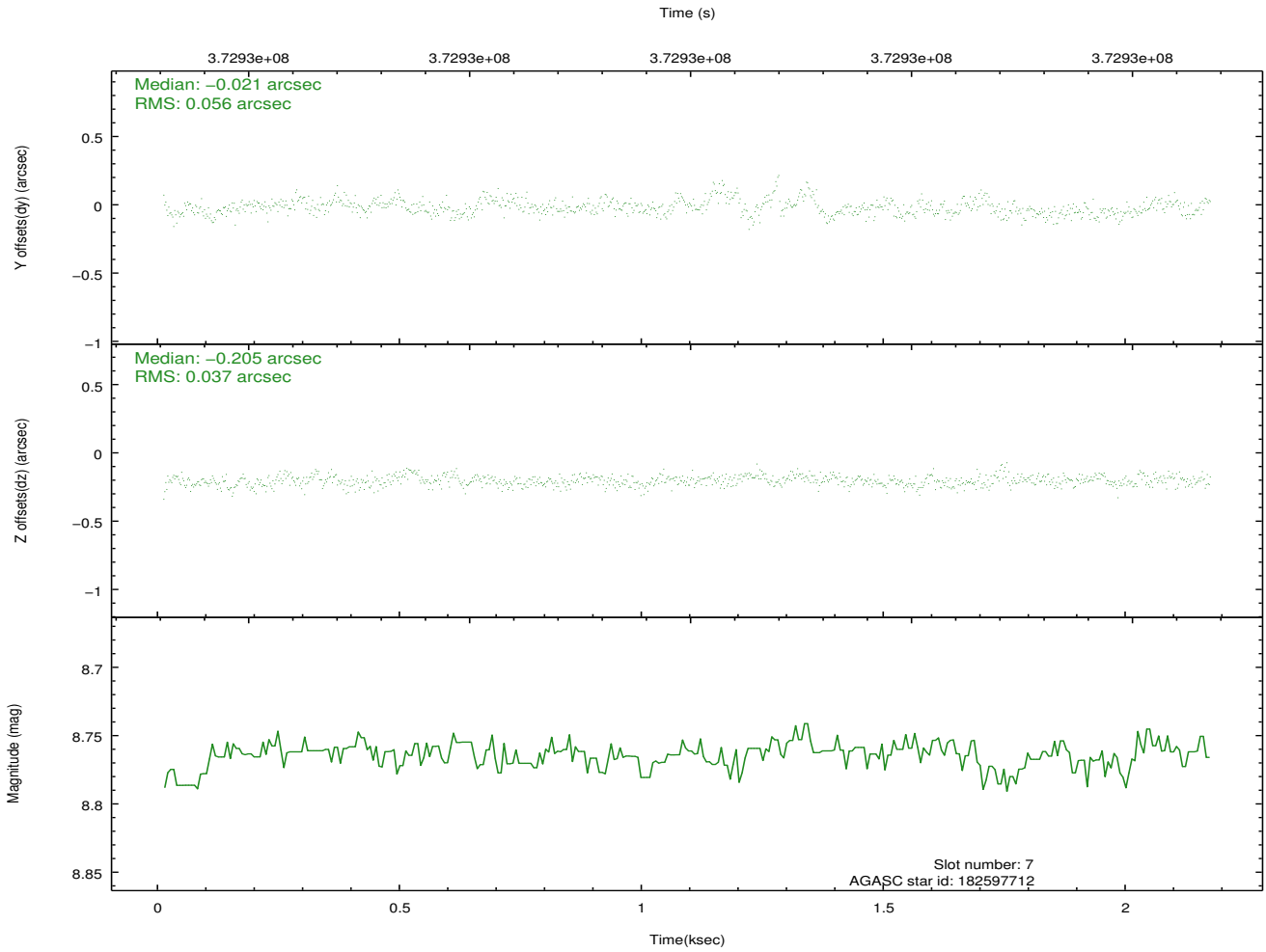
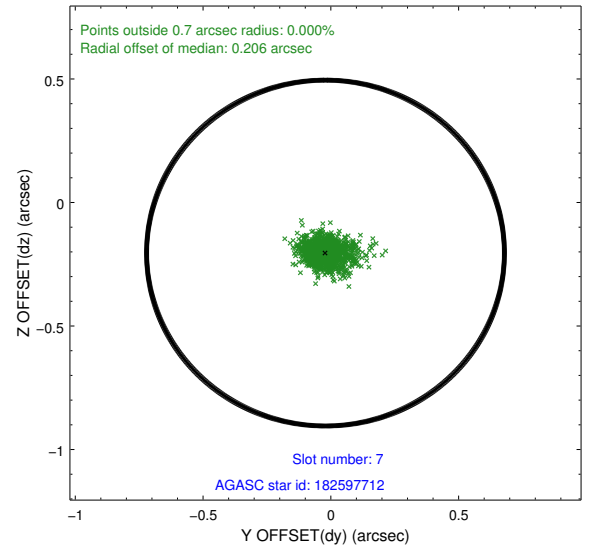
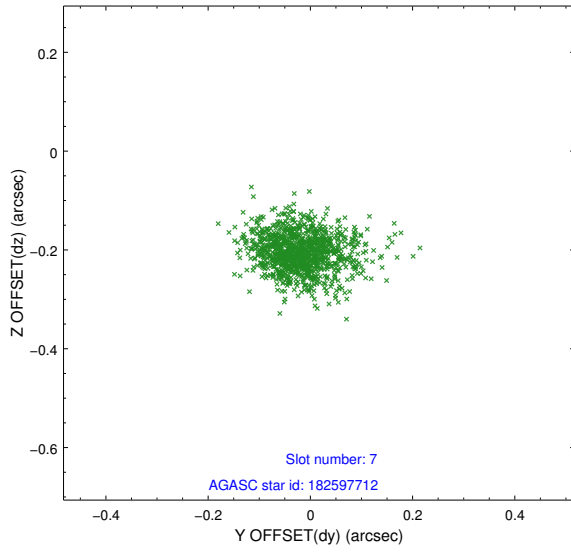
### 2.4.3 Slot 5



## 2.4.4 Slot 6

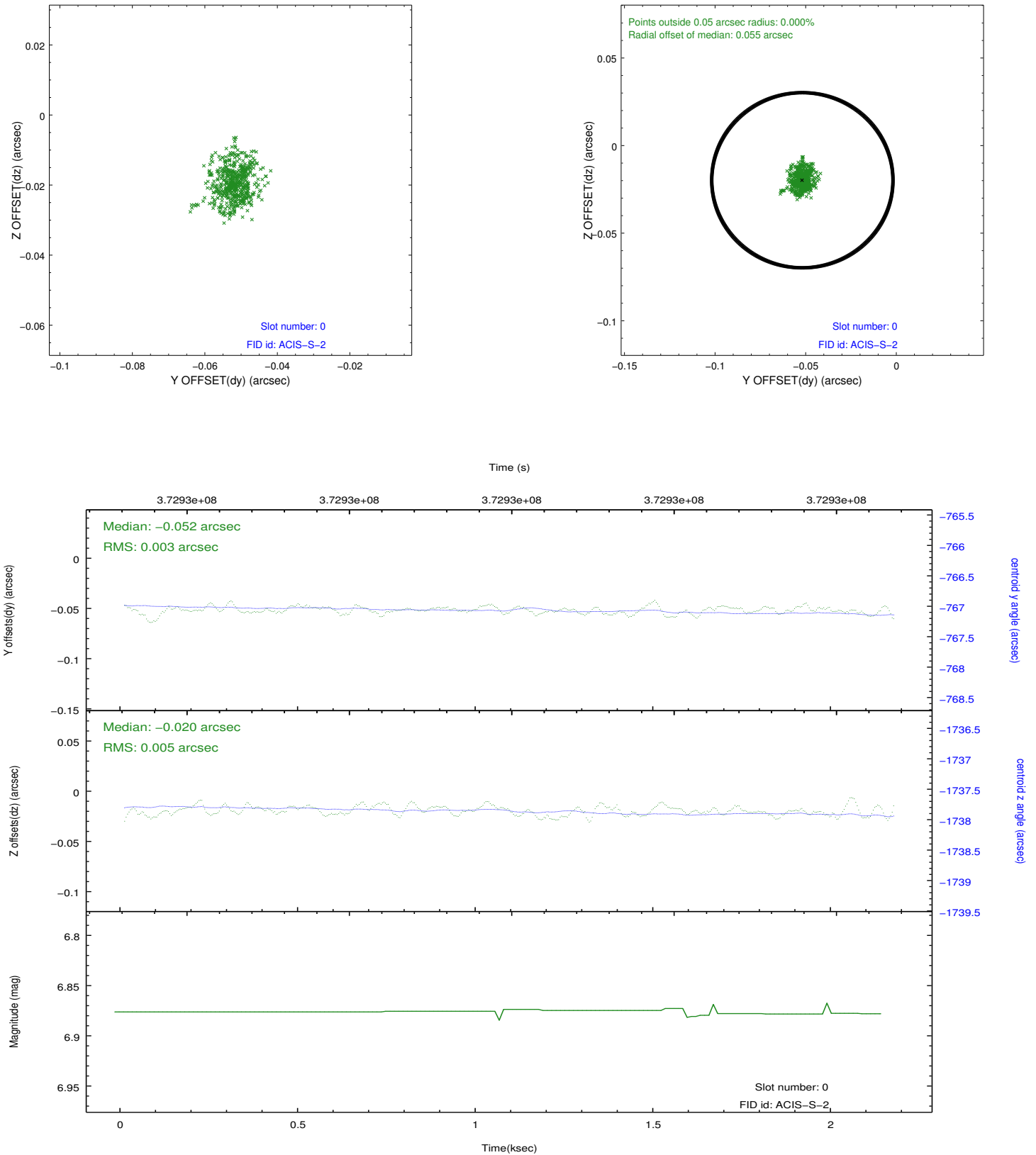


## 2.4.5 Slot 7

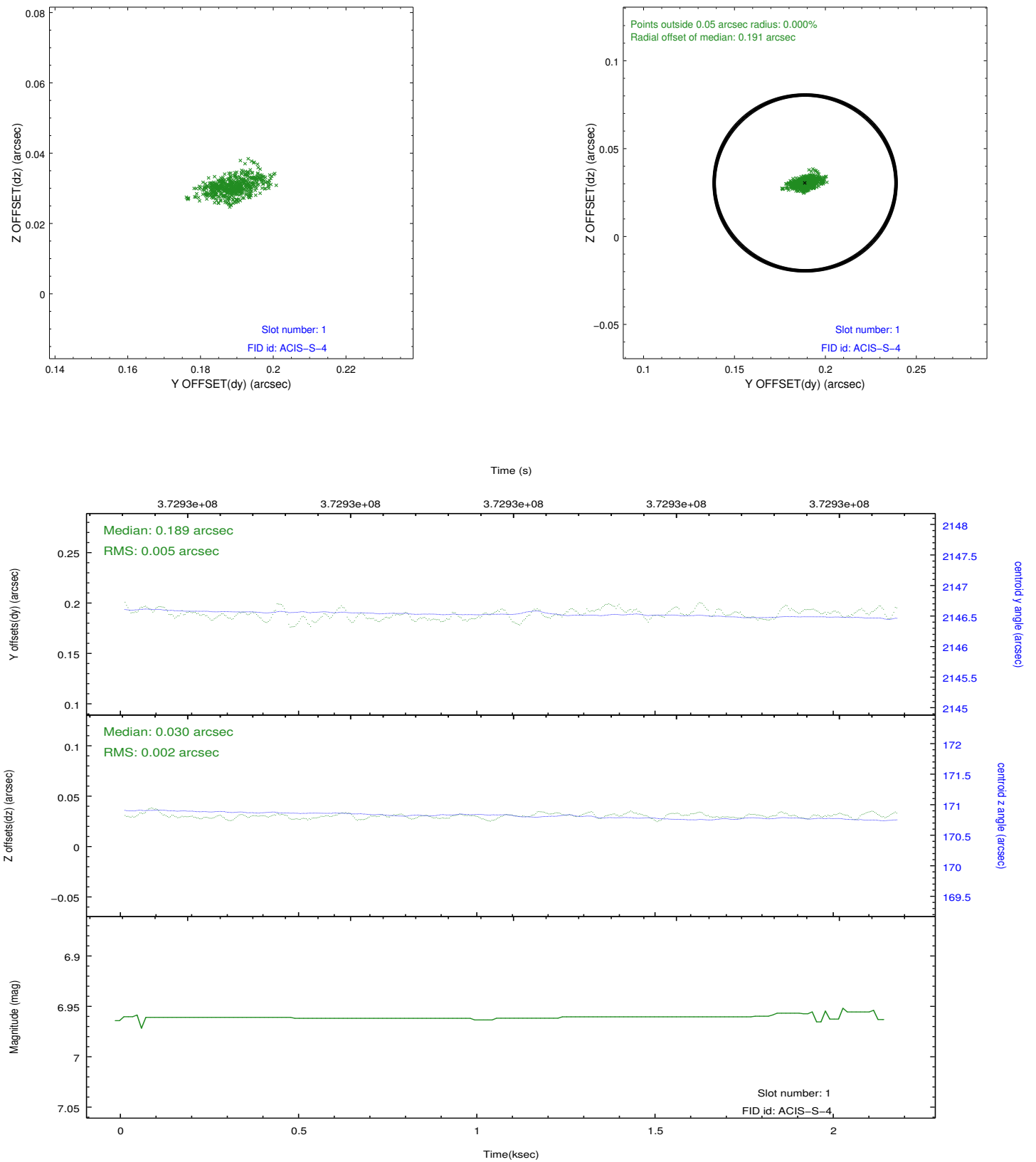


## 2.5 FID Slots

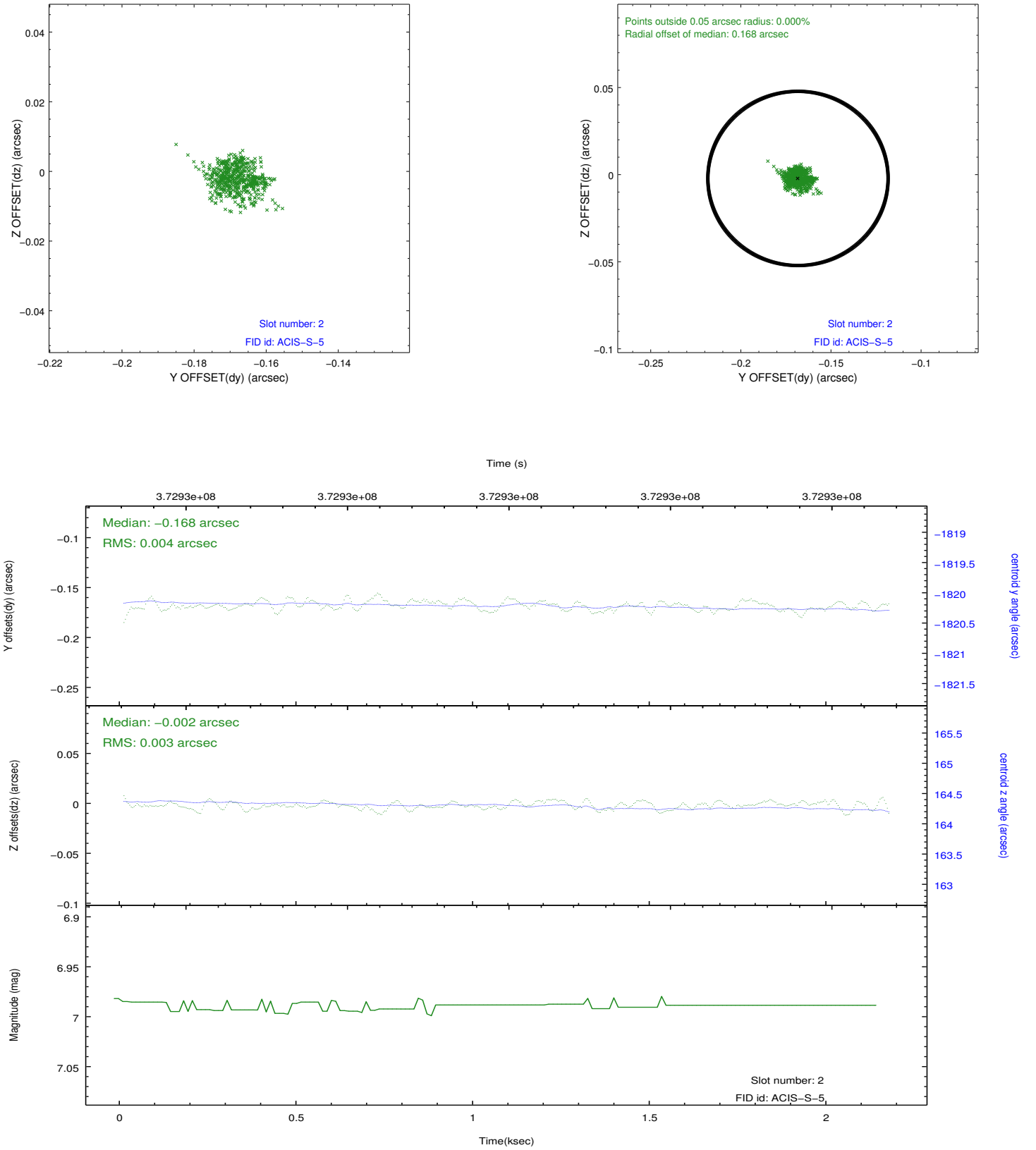
### 2.5.1 Slot 0



## 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)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.157

### A.2 Comments