

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 15702 - L2 Version 1  
Chandra X-Ray Center

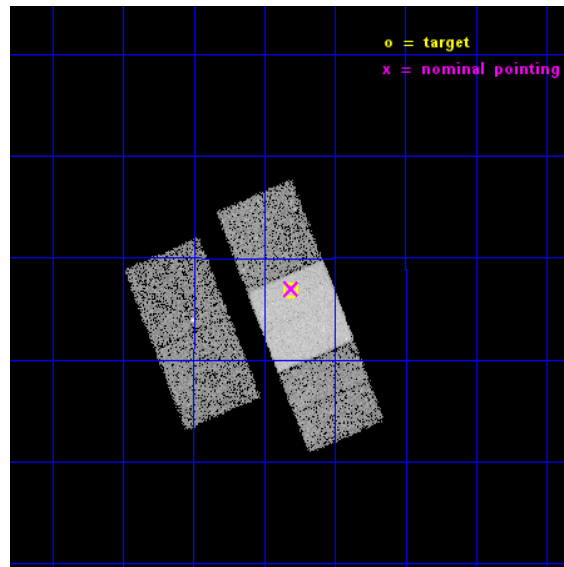
L2 Processing Date : Jan 18 2015

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# 1 Front

seq_num	200915	Sequence number
obs_id	15702	Observation id
title	Rejuvenation of the Innocent Bystander: Testing Spin-Up in Dwarf Carbon Stars	Proposal title
observer	Dr. Paul Green	Principal investigator
object	SDSS J101548.90+094649.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.95375	Observer's specified target RA [deg]
dec_targ	9.7805	Observer's specified target Dec [deg]
ra_nom	153.9519515501	Nominal RA [deg]
dec_nom	9.7830648389318	Nominal Dec [deg]
roll_nom	67.755463158086	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16137.433049321	Sum of GTIs [s]
livetime	15926.585606326	Livetime [s]
ontime2	16137.268889308	Sum of GTIs [s]
ontime3	16137.350969315	Sum of GTIs [s]
ontime6	16137.392009377	Sum of GTIs [s]
ontime7	16137.433049321	Sum of GTIs [s]
ontime8	16137.309929371	Sum of GTIs [s]
l2events	81077	Number of level 2 events

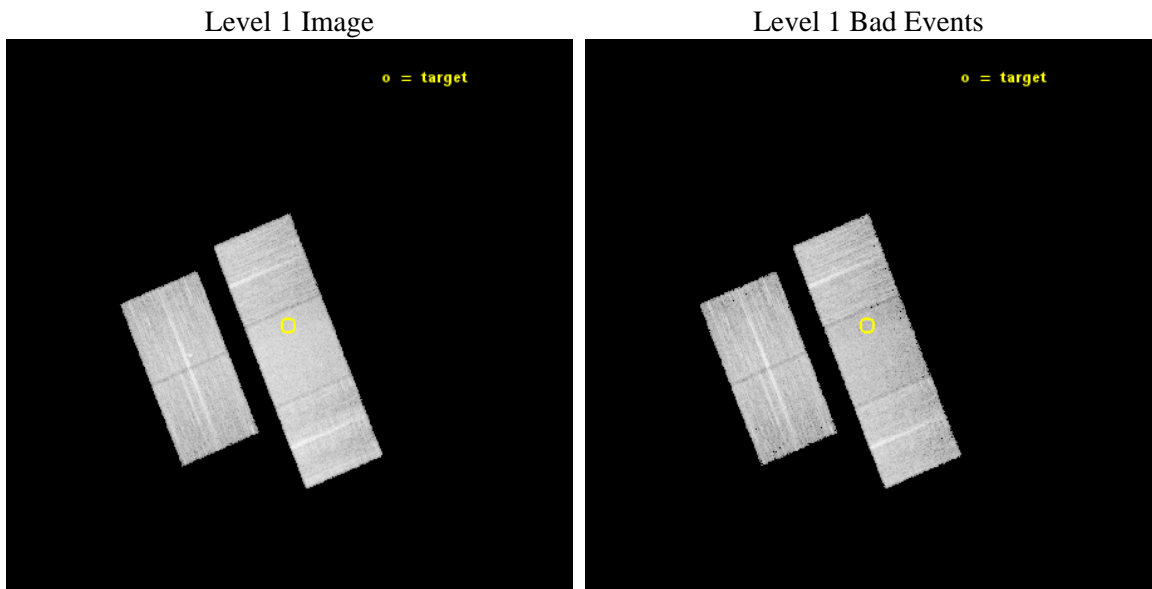




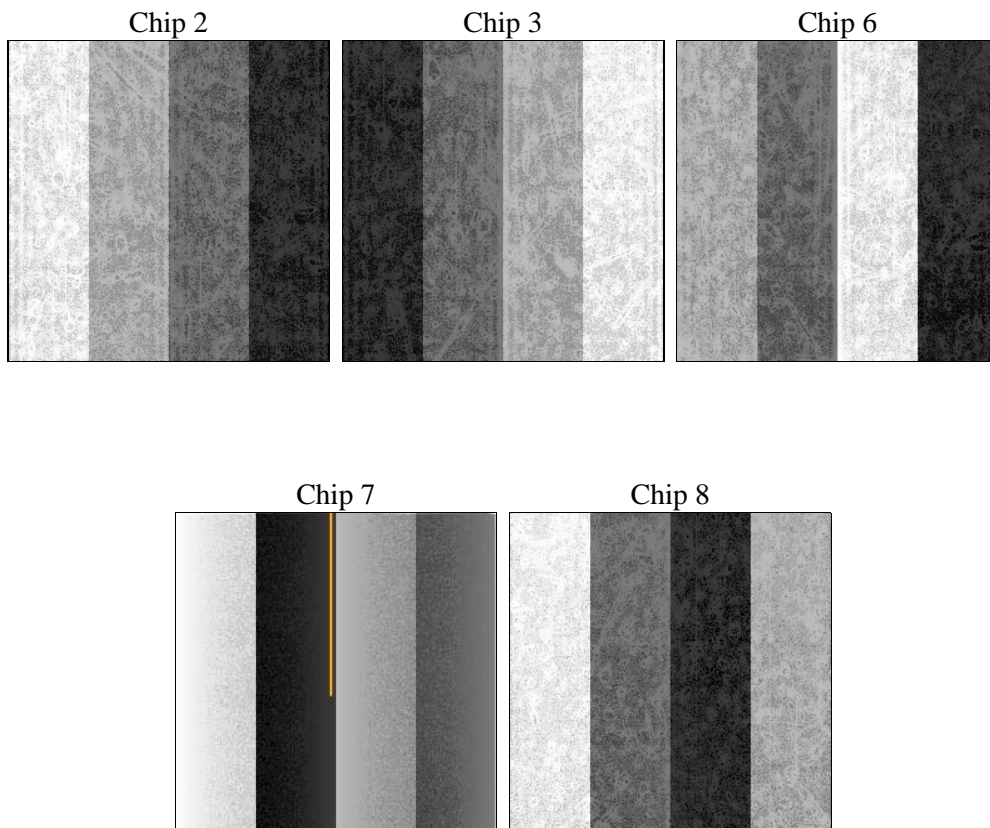
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16100.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	16137.433049321	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime2	16137.268889308	Sum of GTIs [s]
date	2015-01-19T00:20:29	Date and time of file creation	ontime3	16137.350969315	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	16137.392009377	Sum of GTIs [s]
			ontime7	16137.433049321	Sum of GTIs [s]
			ontime8	16137.309929371	Sum of GTIs [s]
			l1events	476538	Number of level 1 events

### 2.1.4 Events

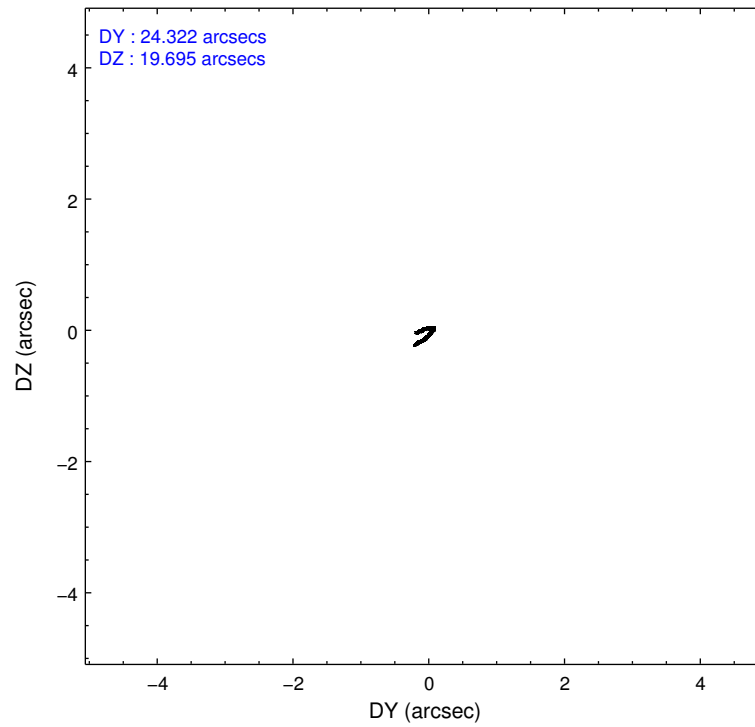
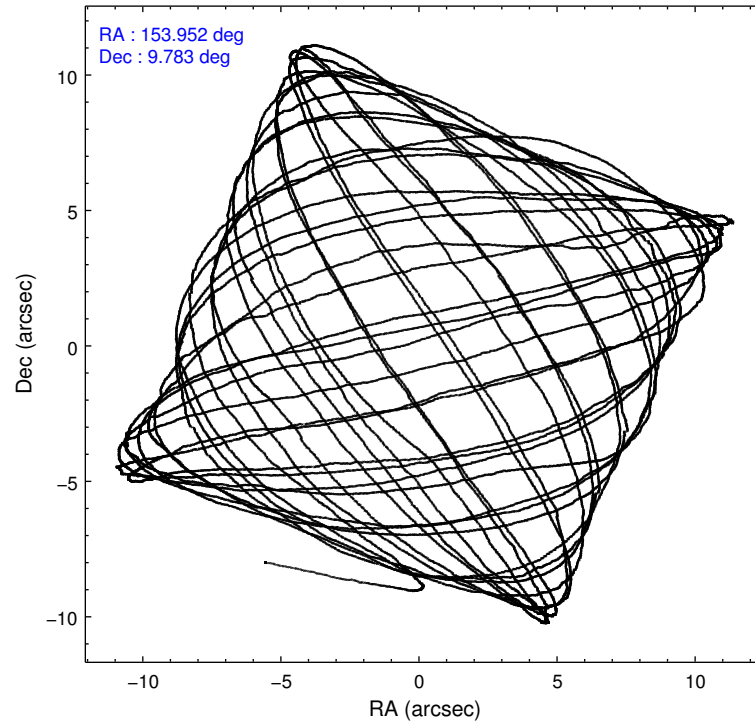
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	84842	80204	87484	112386	111622
rejected events	75555	71317	77181	64467	84265
rejected %	89%	88%	88%	57%	75%

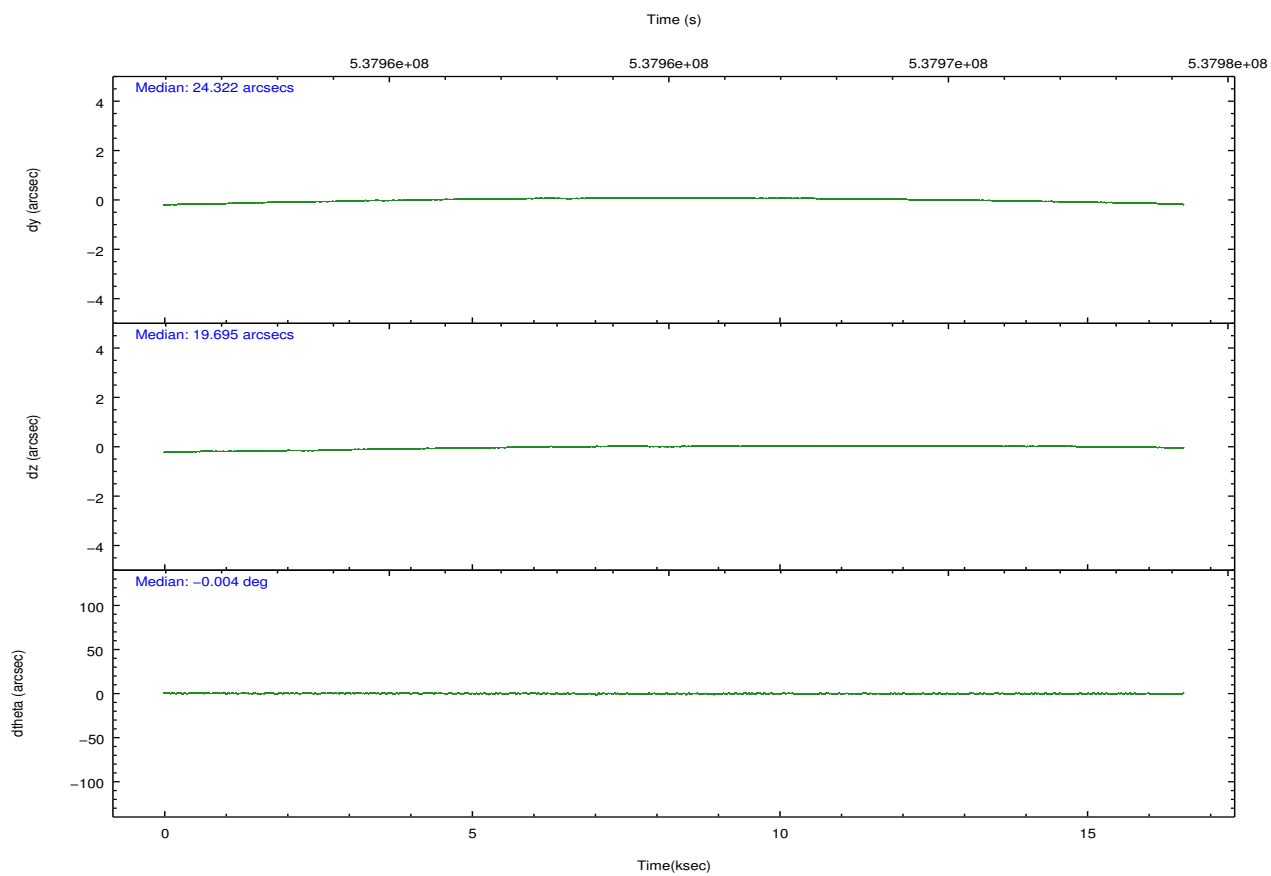
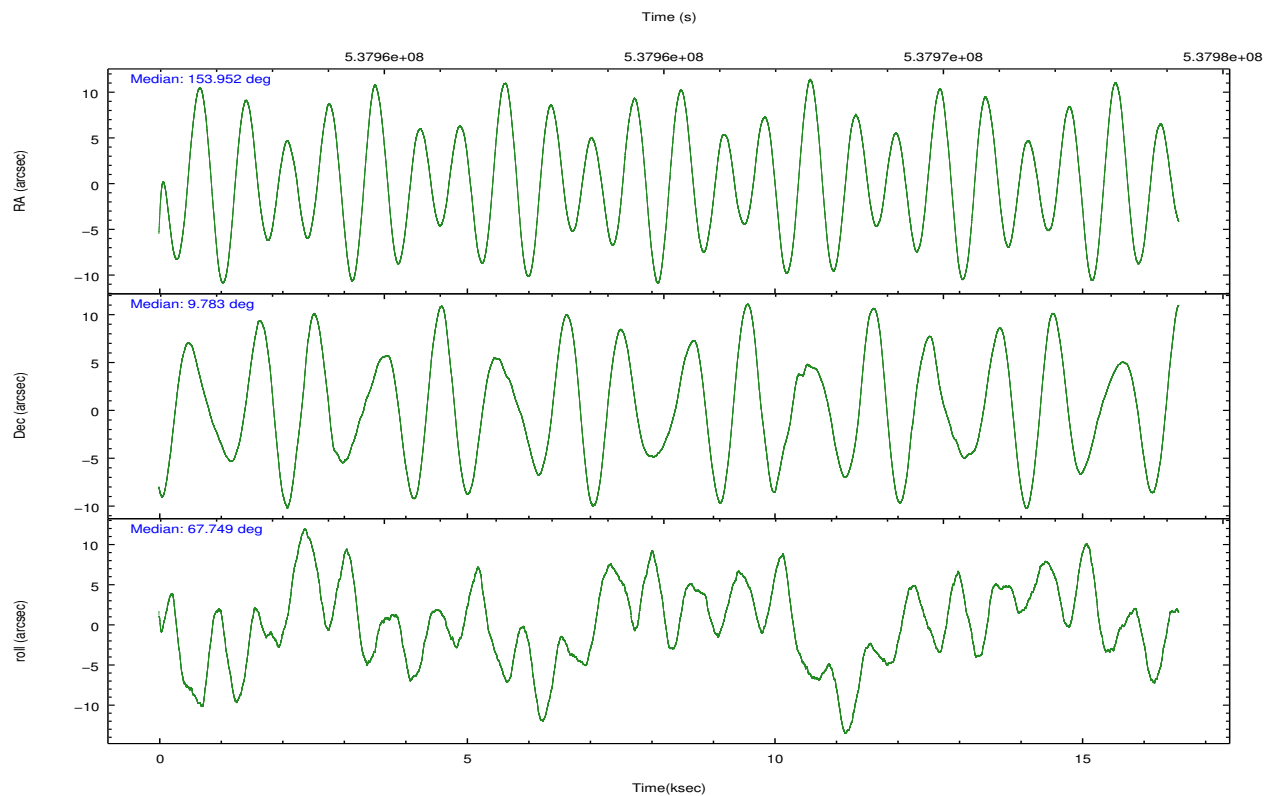
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3369	3055	3578	3981	7556
	3%	3%	4%	3%	6%
grade 1 events	40	40	30	142	93
	0%	0%	0%	0%	0%
grade 2 events	2213	1993	2349	9910	6620
	2%	2%	2%	8%	5%
grade 3 events	931	967	990	3816	2879
	1%	1%	1%	3%	2%
grade 4 events	949	973	983	3828	2776
	1%	1%	1%	3%	2%
grade 5 events	3515	4186	4223	11149	6251
	4%	5%	4%	9%	5%
grade 6 events	1828	1900	2403	26397	7530
	2%	2%	2%	23%	6%
grade 7 events	71997	67090	72928	53163	77917
	84%	83%	83%	47%	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	153.956098	153.9519515501039	CCD I2 on	O2	Y
[deg] Pointing Dec	9.755928	9.783064838931816	CCD I3 on	Y	Y
[deg] Pointing Roll	67.598129	67.75546315808576	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	537957262.184000	537956175.52308	CCD S5 on	N	N
Observation start date	2015-01-18T08:33:15	2015-01-18T08:16:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	537973362.184000	537974903.29913	On-chip summing requested	N	N
Observation end date	2015-01-18T13:01:35	2015-01-18T13:28:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



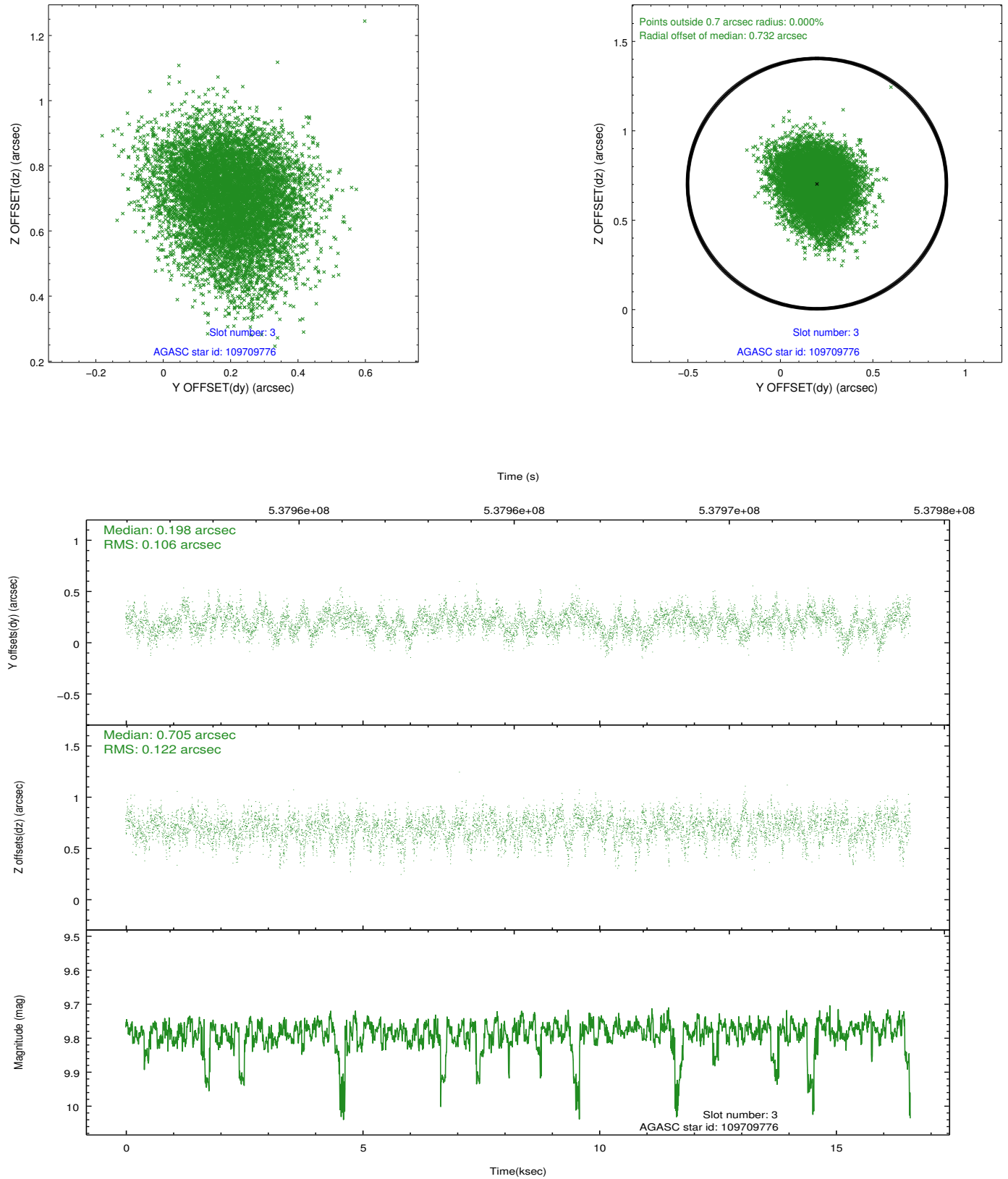


### Slot Statistics

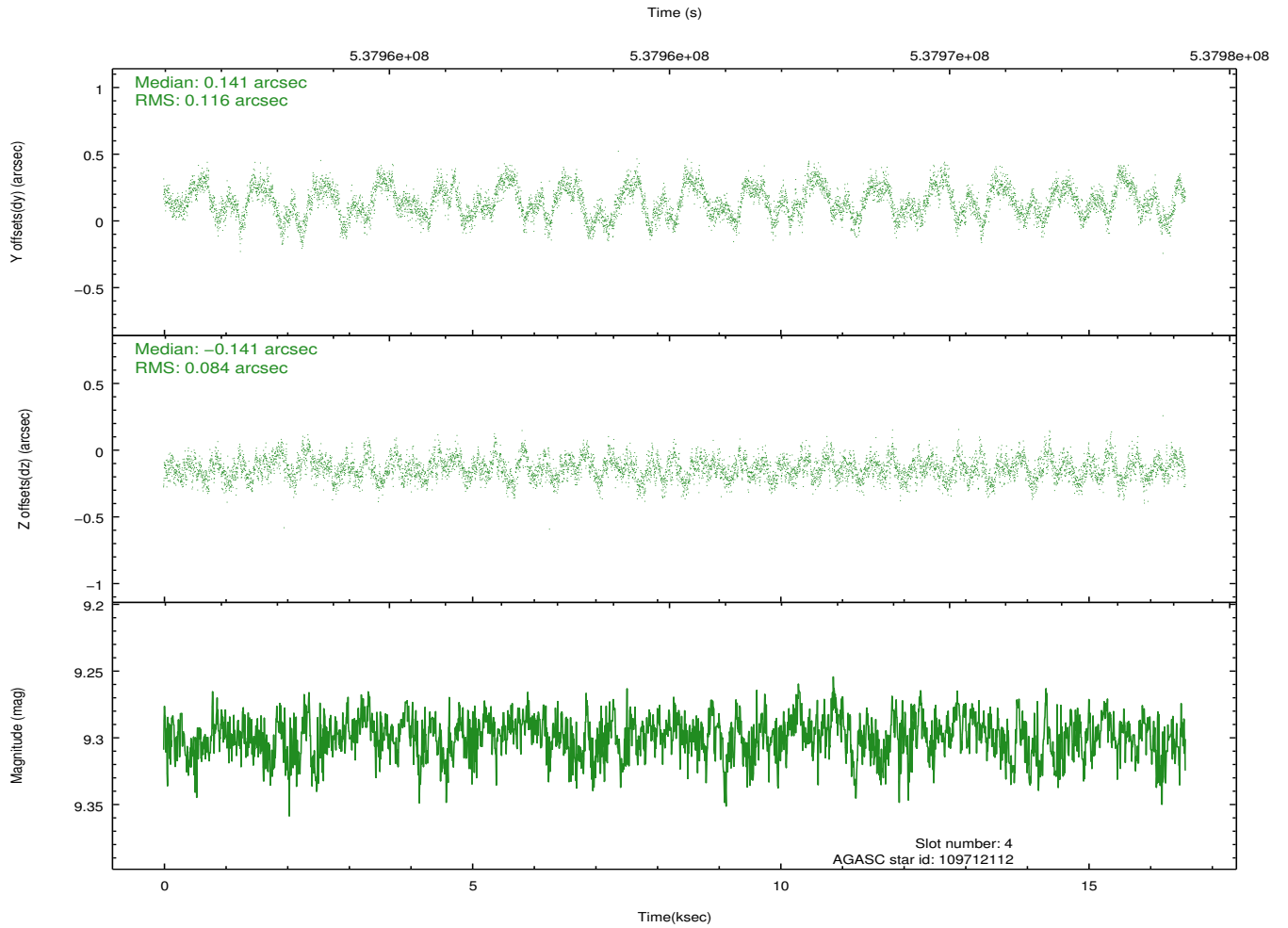
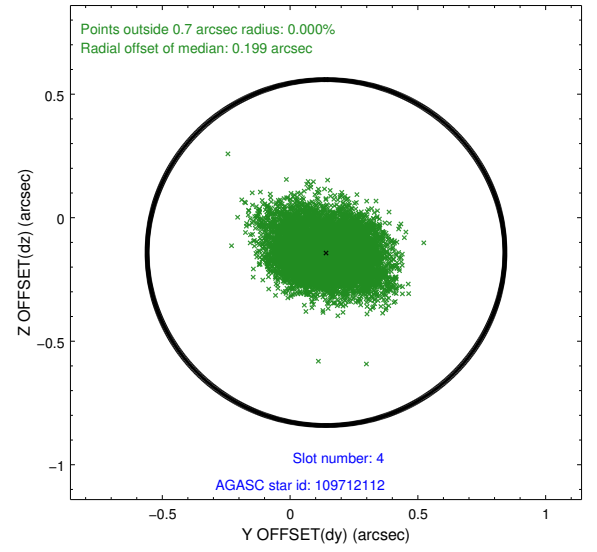
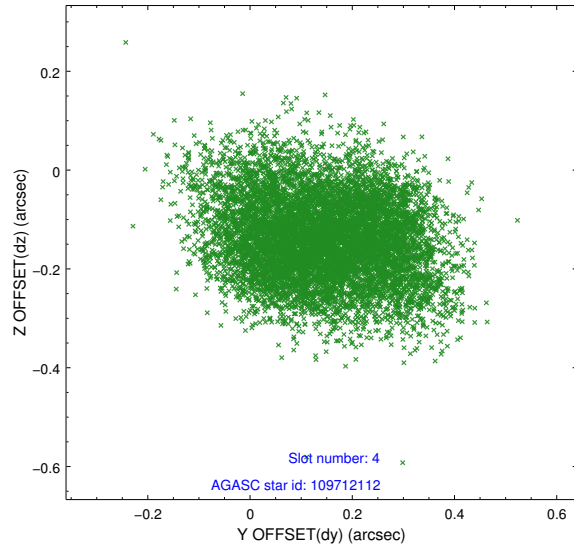
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	4043	-0.227	-0.090	0.008	0.013	0.000000	0.000000	-777.76	-1741.20
1	FID		ACIS-S-4	7.19	4043	0.457	0.133	0.006	0.010	0.000000	0.000000	2136.09	167.22
2	FID		ACIS-S-5	7.19	4044	-0.262	-0.035	0.008	0.014	0.000000	0.000000	-1830.30	161.04
3	GUIDE	used	109709776	9.78	8076	0.198	0.705	0.172	0.279	154.665464	9.786355	1063.50	-2283.01
4	GUIDE	used	109712112	9.30	8081	0.141	-0.141	0.155	0.241	153.387767	9.518160	-1558.55	1539.47
5	GUIDE	used	110107200	9.38	8082	-0.358	-0.005	0.181	0.296	154.671063	10.129040	2209.90	-1829.18
6	GUIDE	used	109710800	9.25	8078	0.075	-0.202	0.127	0.206	153.255259	9.755641	-945.95	2299.01
7	GUIDE	used	110102976	9.58	8072	-0.066	-0.350	0.150	0.240	153.551308	10.507891	1957.51	2357.00

## 2.4 Star Slots

### 2.4.1 Slot 3

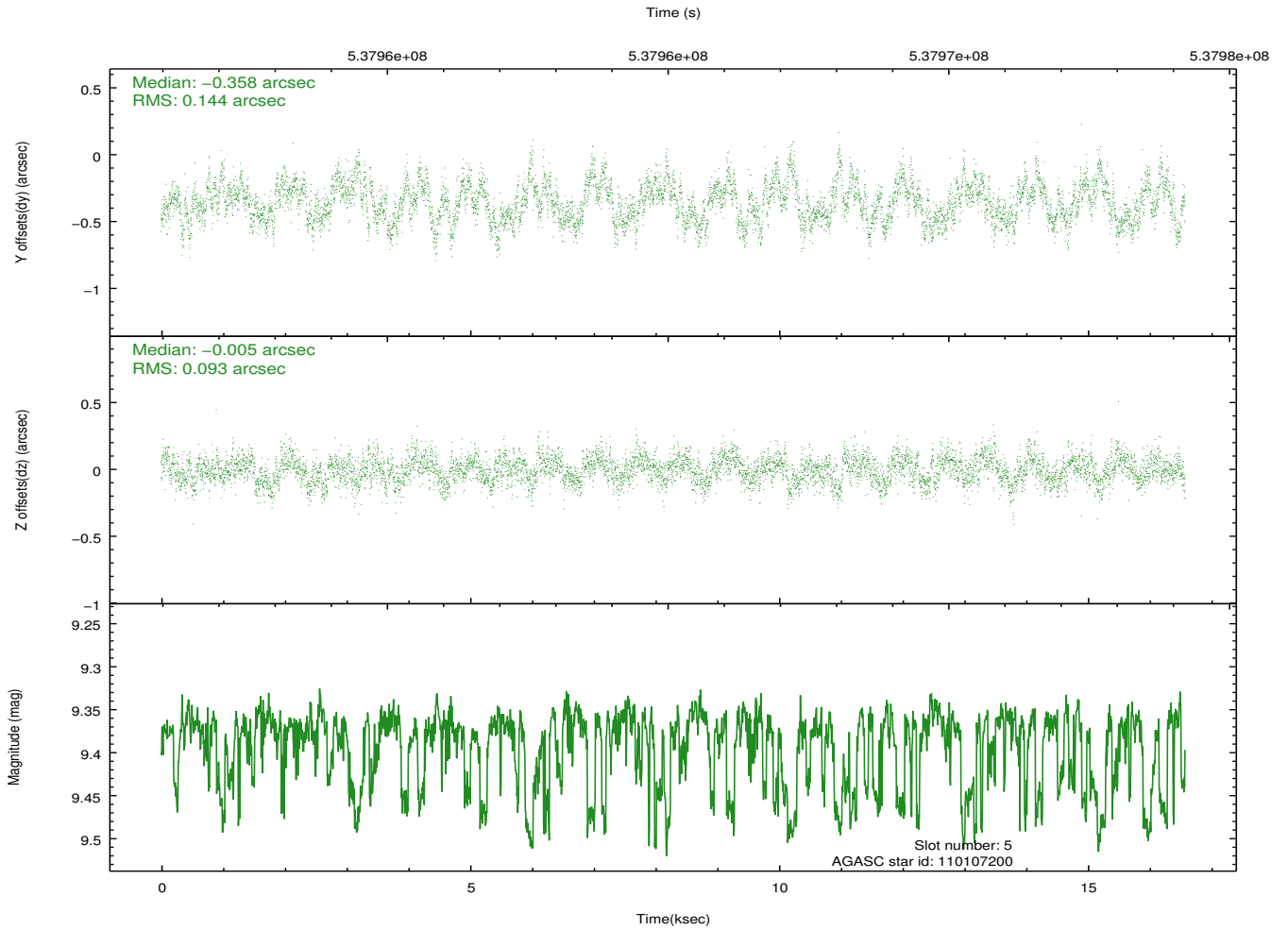
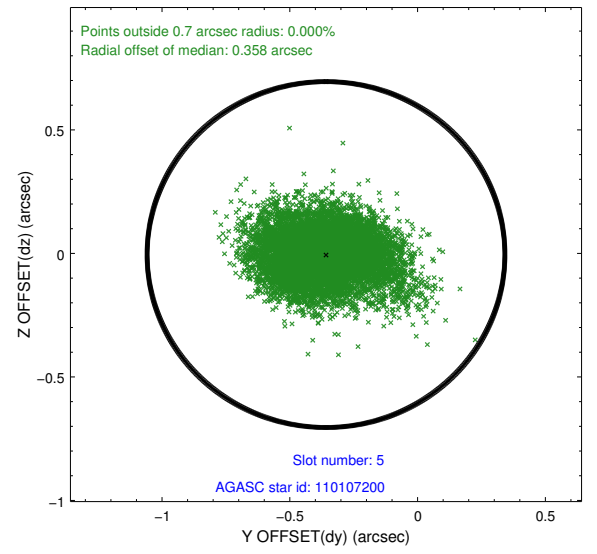
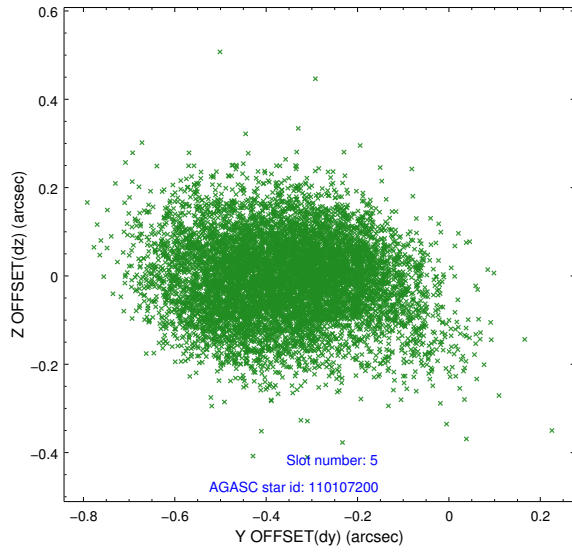


## 2.4.2 Slot 4

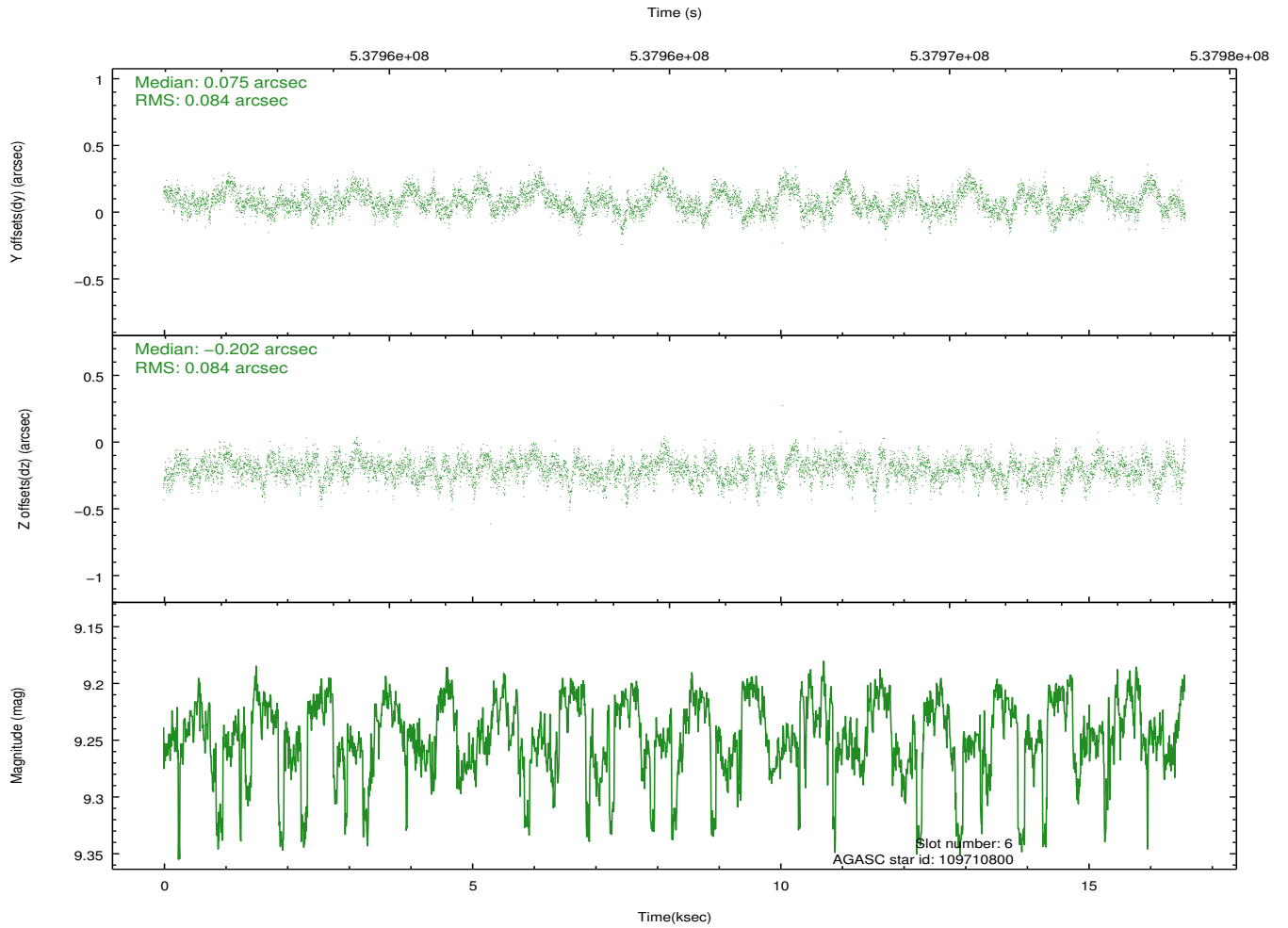
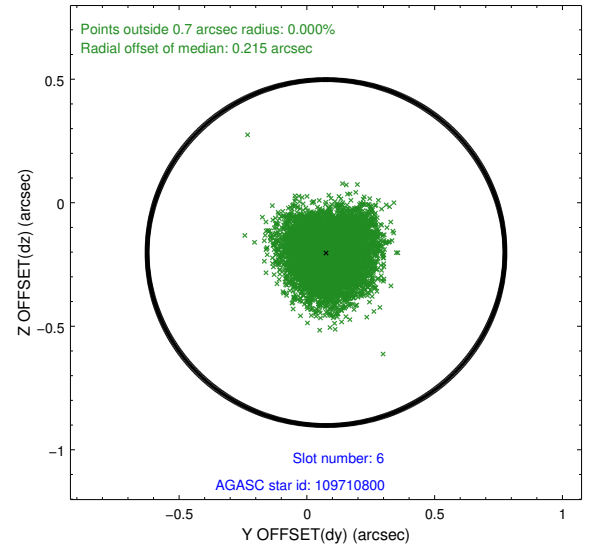
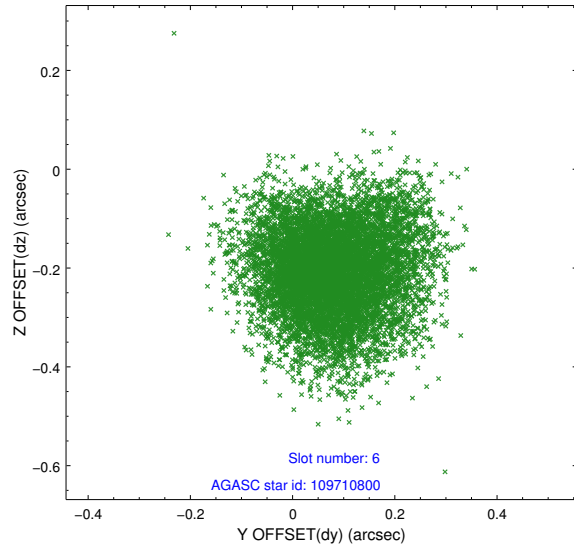




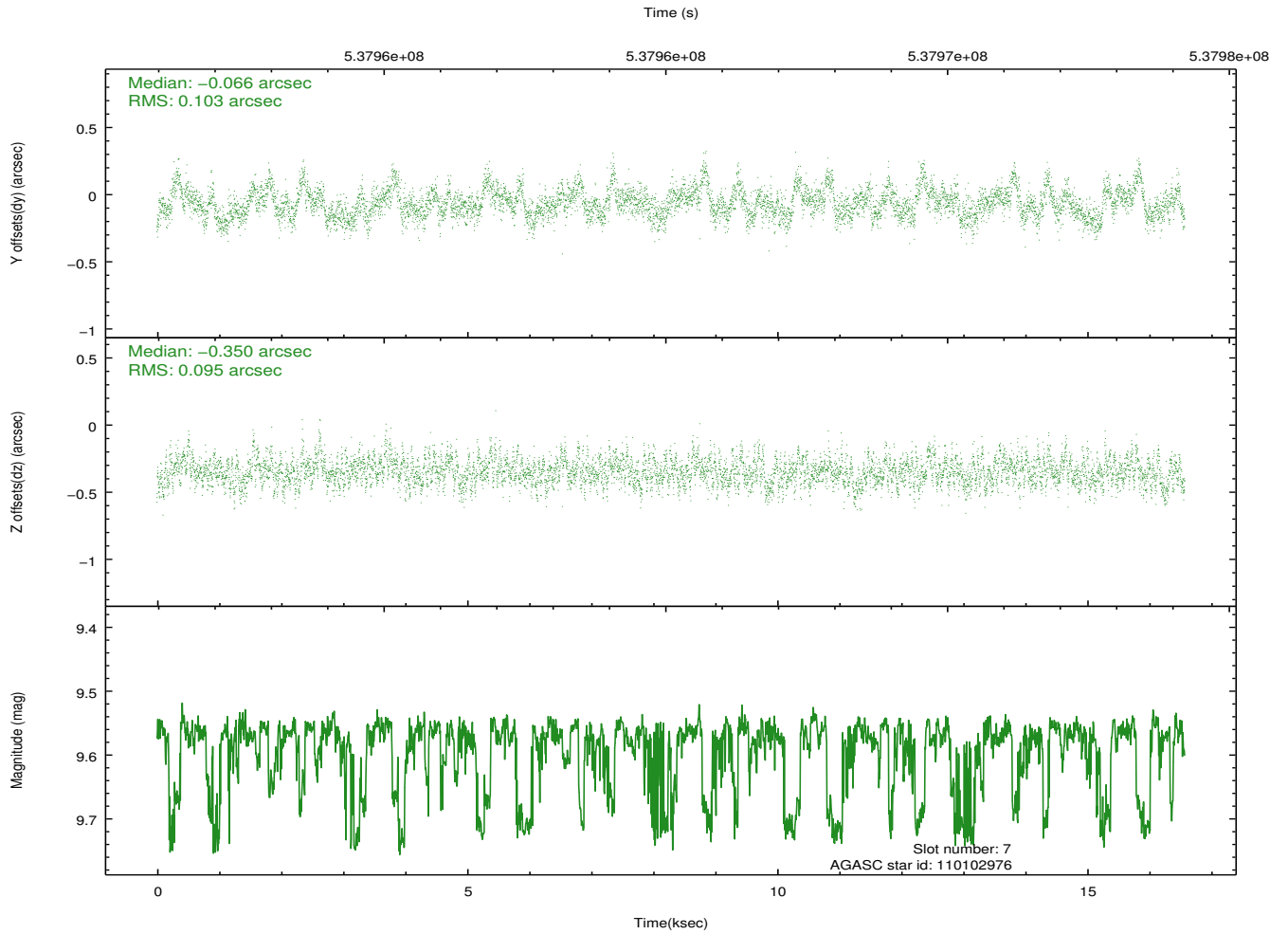
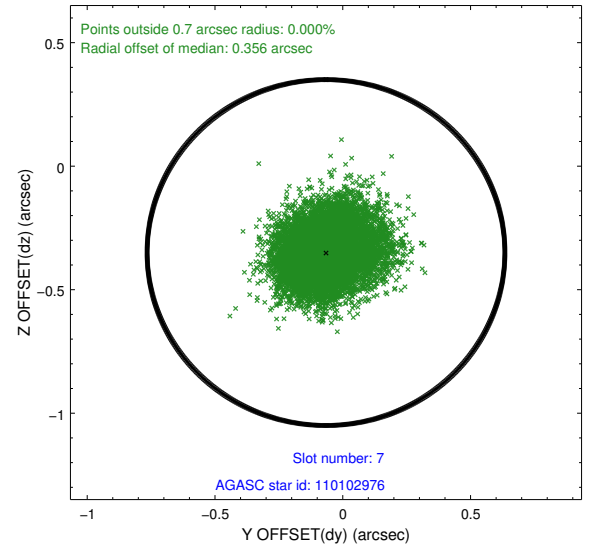
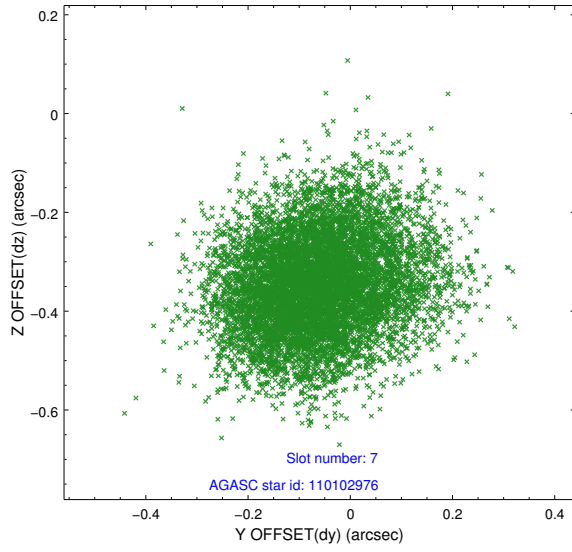
### 2.4.3 Slot 5



## 2.4.4 Slot 6

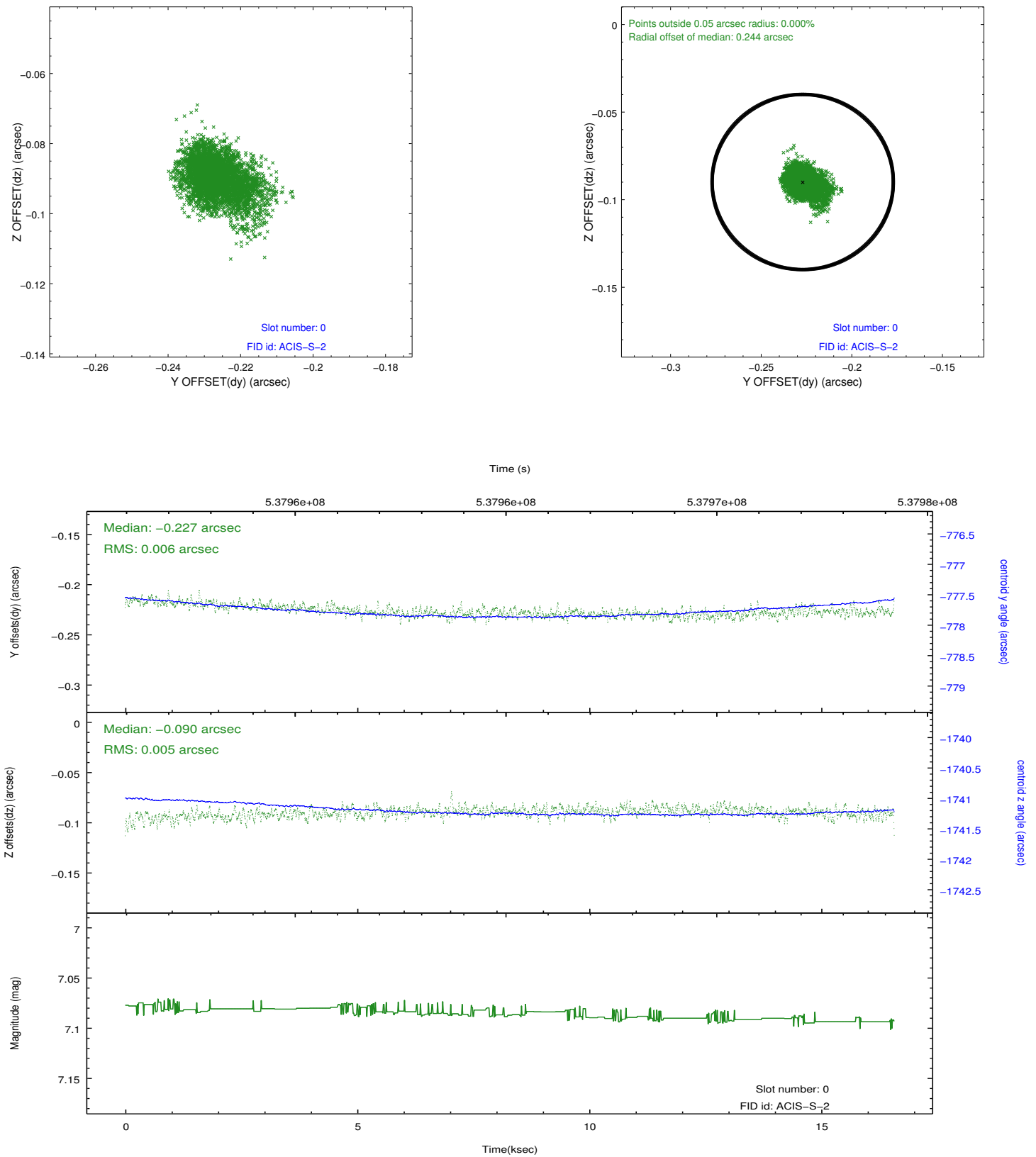


## 2.4.5 Slot 7

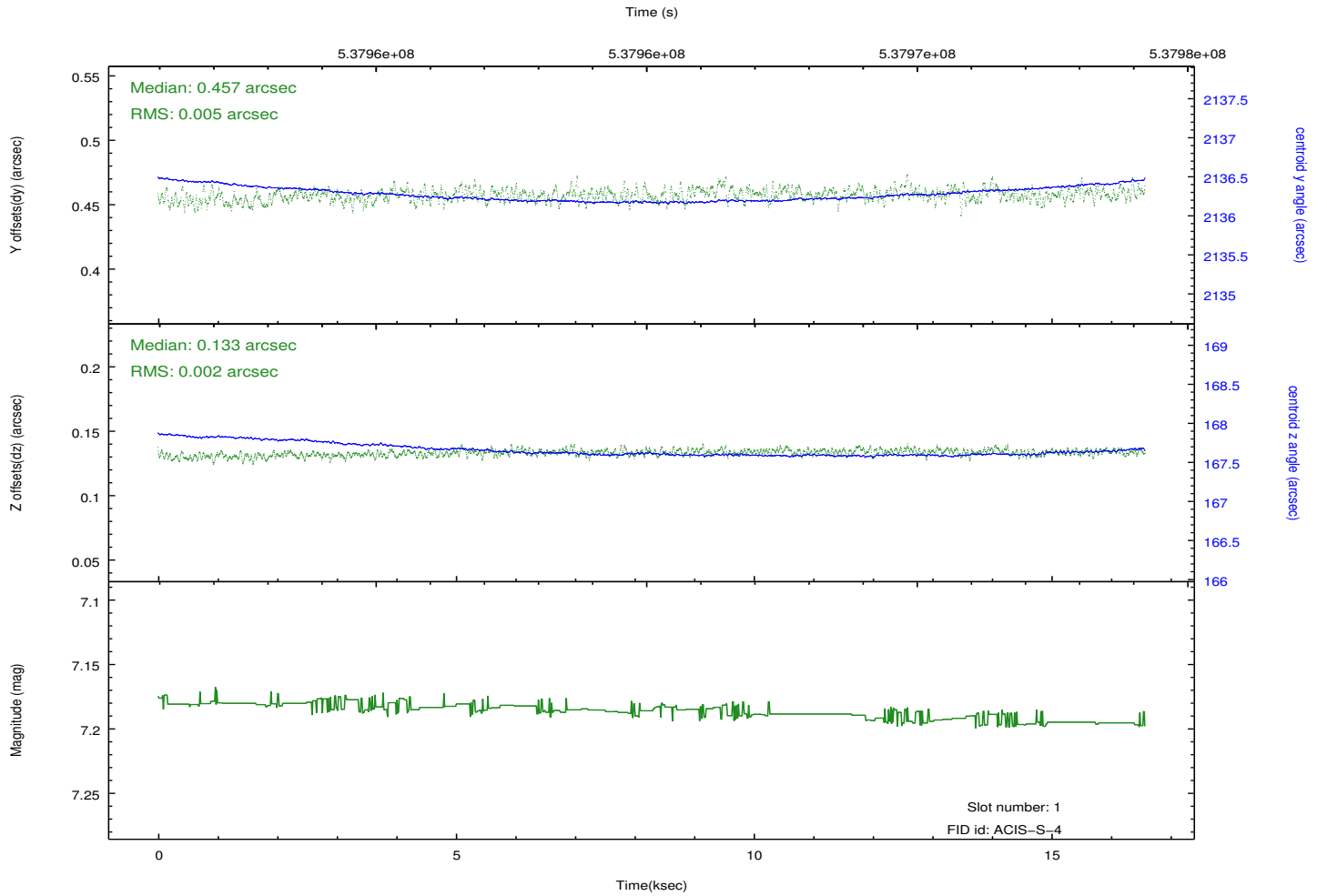
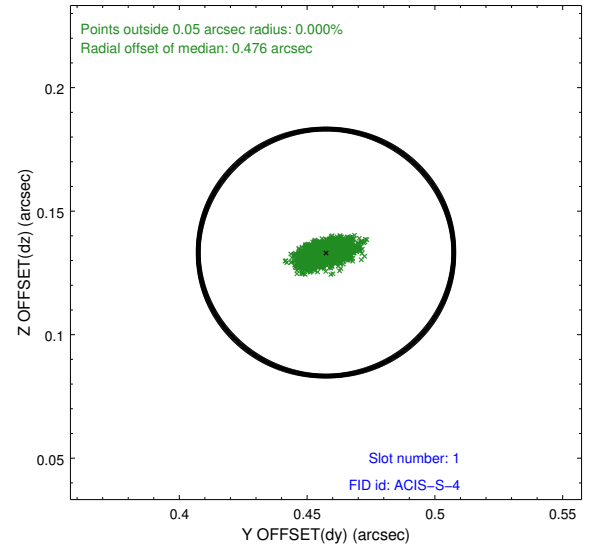
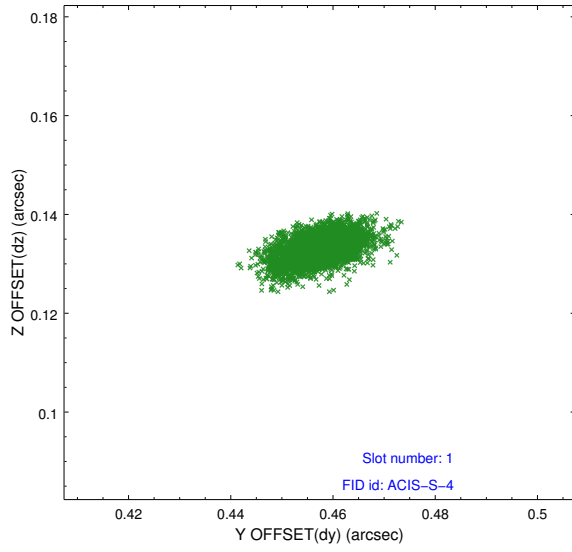


## 2.5 FID Slots

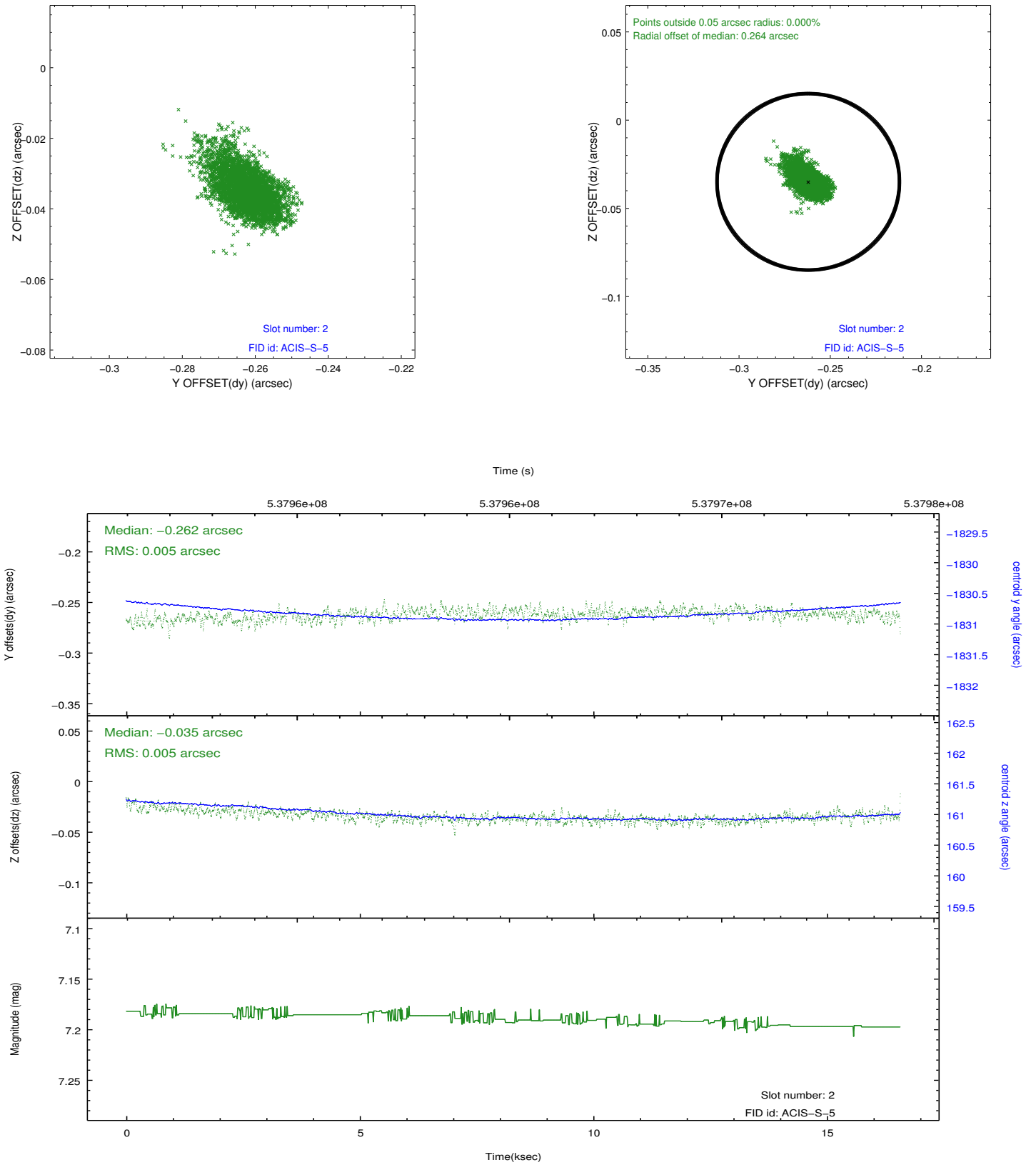
### 2.5.1 Slot 0



## 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)	2015.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.137433049321

### A.2 Comments