

# V&V Reference Report

## L2 ASCDS Version : 10.5.4

Observation 18994 - L2 Version 1  
Chandra X-Ray Center

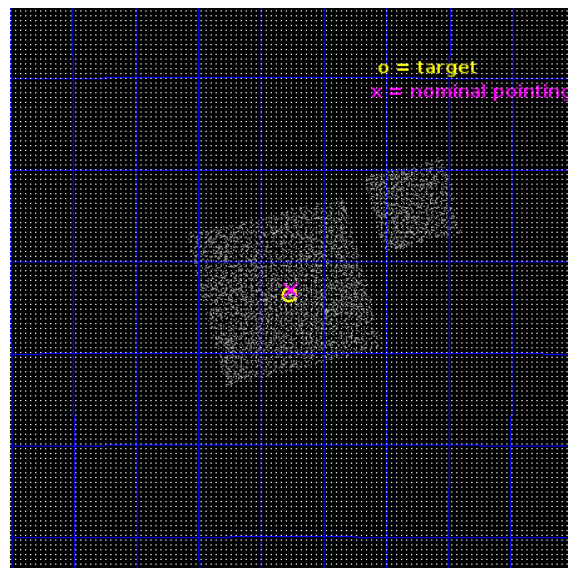
L2 Processing Date : May 22 2017

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# 1 Front

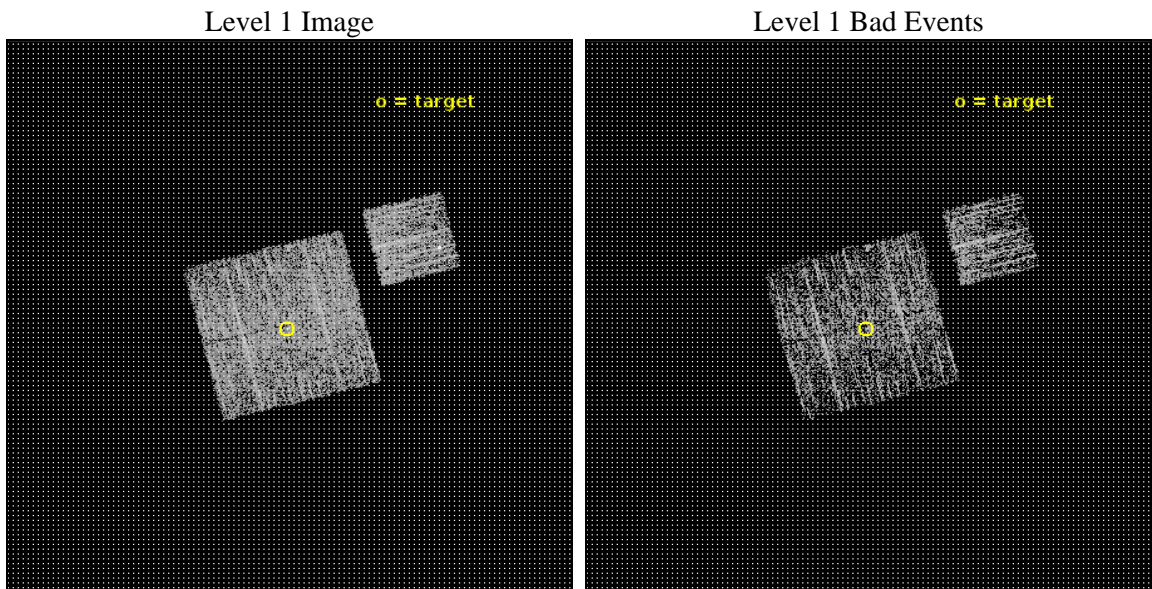
seq_num	401862	Sequence number
obs_id	18994	Observation id
title	Accurate localization of hard X-ray sources in the Galactic Center region. Search for HMXBs in the bulge	Proposal title
observer	Alexander Lutovinov	Principal investigator
object	AX J1740.2-2903	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.067083	Observer's specified target RA [deg]
dec_targ	-29.060778	Observer's specified target Dec [deg]
ra_nom	265.06392886941	Nominal RA [deg]
dec_nom	-29.051876945481	Nominal Dec [deg]
roll_nom	75.839045879142	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1568.6000121832	Sum of GTIs [s]
livetime	1548.1050982375	Livetime [s]
ontime0	1568.6000121832	Sum of GTIs [s]
ontime1	1568.6000121832	Sum of GTIs [s]
ontime2	1568.6000121832	Sum of GTIs [s]
ontime3	1568.6000121832	Sum of GTIs [s]
ontime6	1568.6000121832	Sum of GTIs [s]
l2events	6084	Number of level 2 events



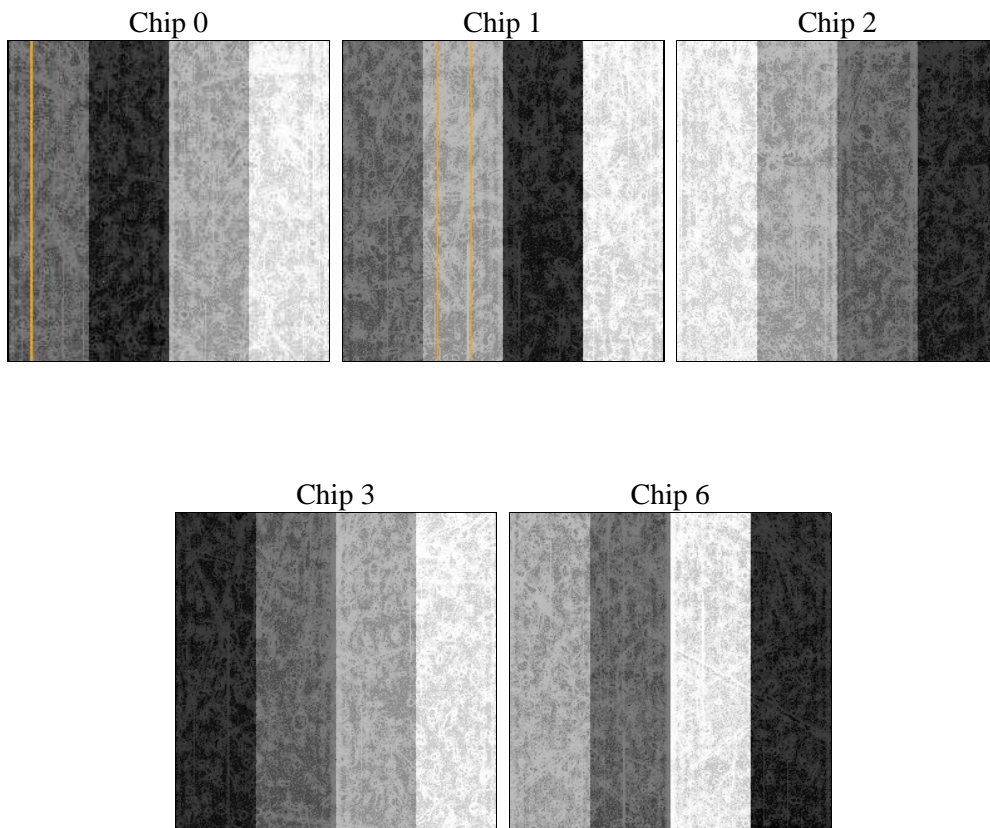
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	1568.6000121832	Sum of GTIs [s]
caldsver	4.7.4	&#160	ontime0	1568.6000121832	Sum of GTIs [s]
date	2017-05-22T14:11:38	Date and time of file creation	ontime1	1568.6000121832	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1568.6000121832	Sum of GTIs [s]
			ontime3	1568.6000121832	Sum of GTIs [s]
			ontime6	1568.6000121832	Sum of GTIs [s]
			l1events	57064	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10739	10689	11737	10880	13019
rejected events	9378	9240	10366	9387	11132
rejected %	87%	86%	88%	86%	85%

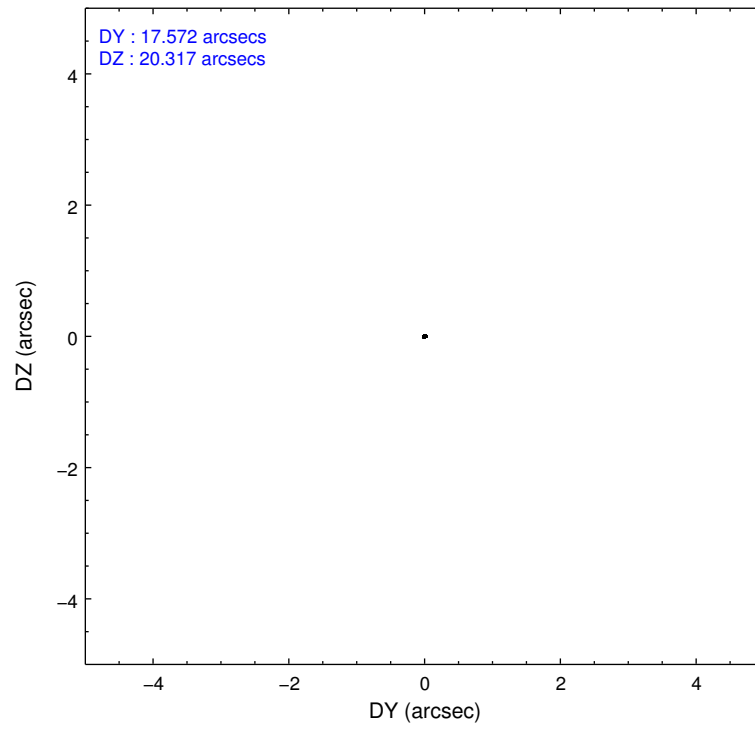
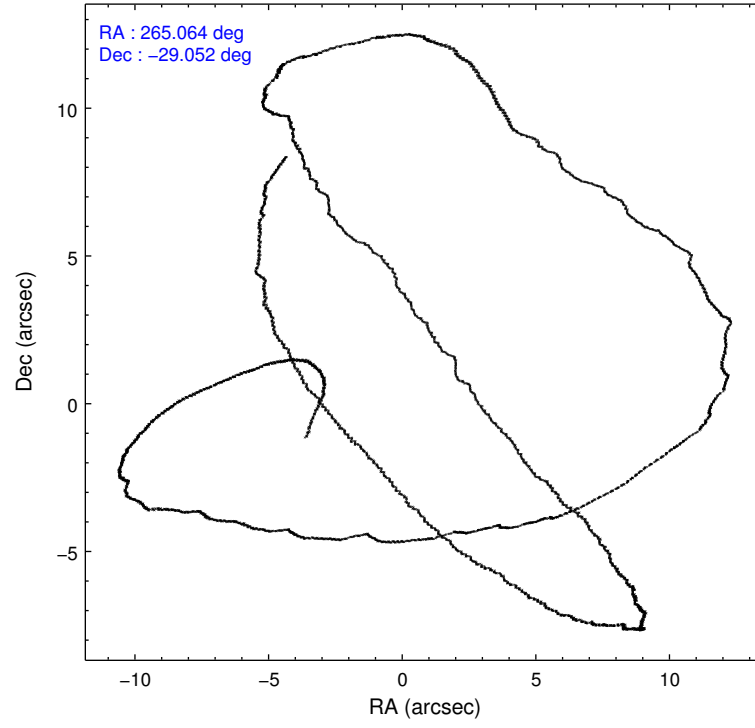
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	502	552	580	608	1011
	4%	5%	4%	5%	7%
grade 1 events	5	4	13	6	8
	0%	0%	0%	0%	0%
grade 2 events	337	304	308	290	301
	3%	2%	2%	2%	2%
grade 3 events	130	136	113	154	123
	1%	1%	0%	1%	0%
grade 4 events	130	131	130	152	141
	1%	1%	1%	1%	1%
grade 5 events	475	487	430	541	531
	4%	4%	3%	4%	4%
grade 6 events	266	330	241	290	313
	2%	3%	2%	2%	2%
grade 7 events	8894	8745	9922	8839	10591
	82%	81%	84%	81%	81%

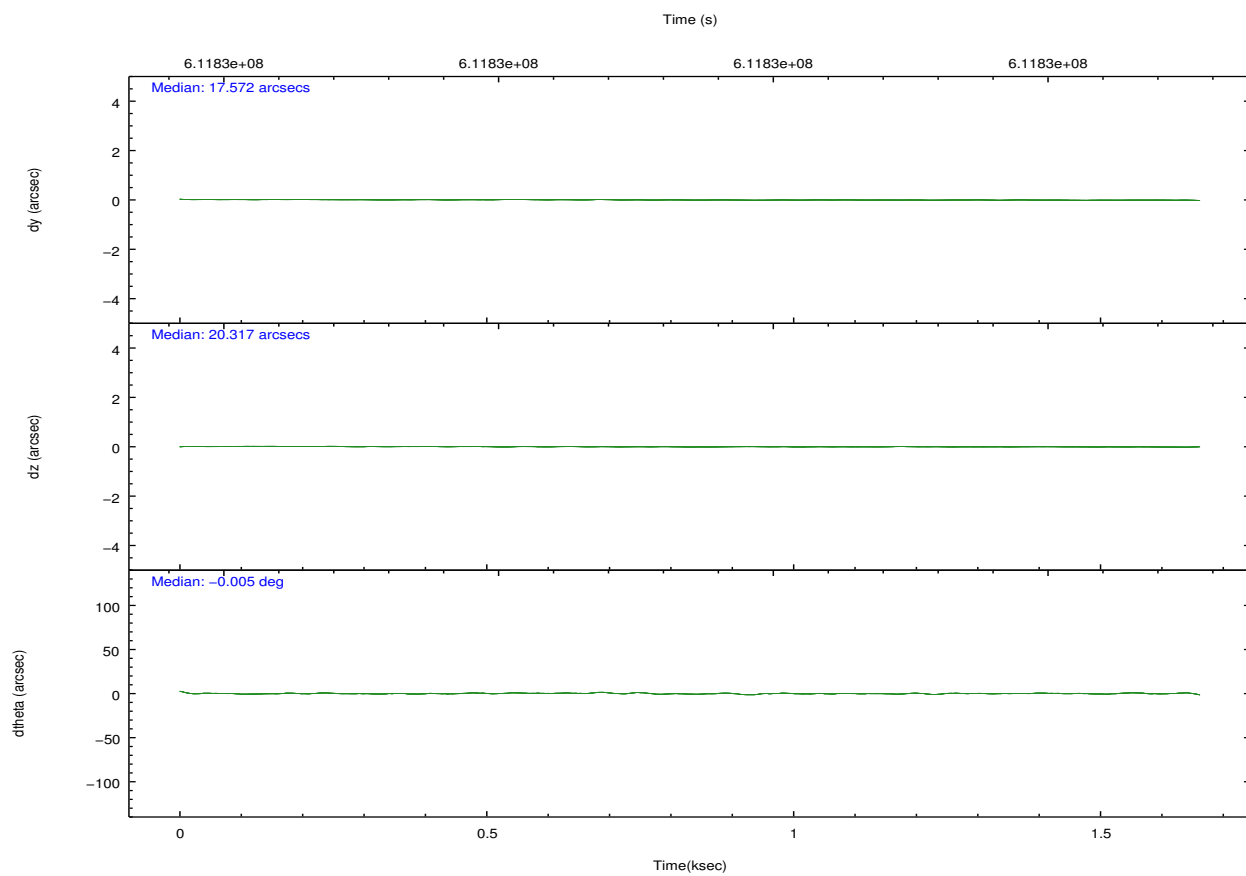
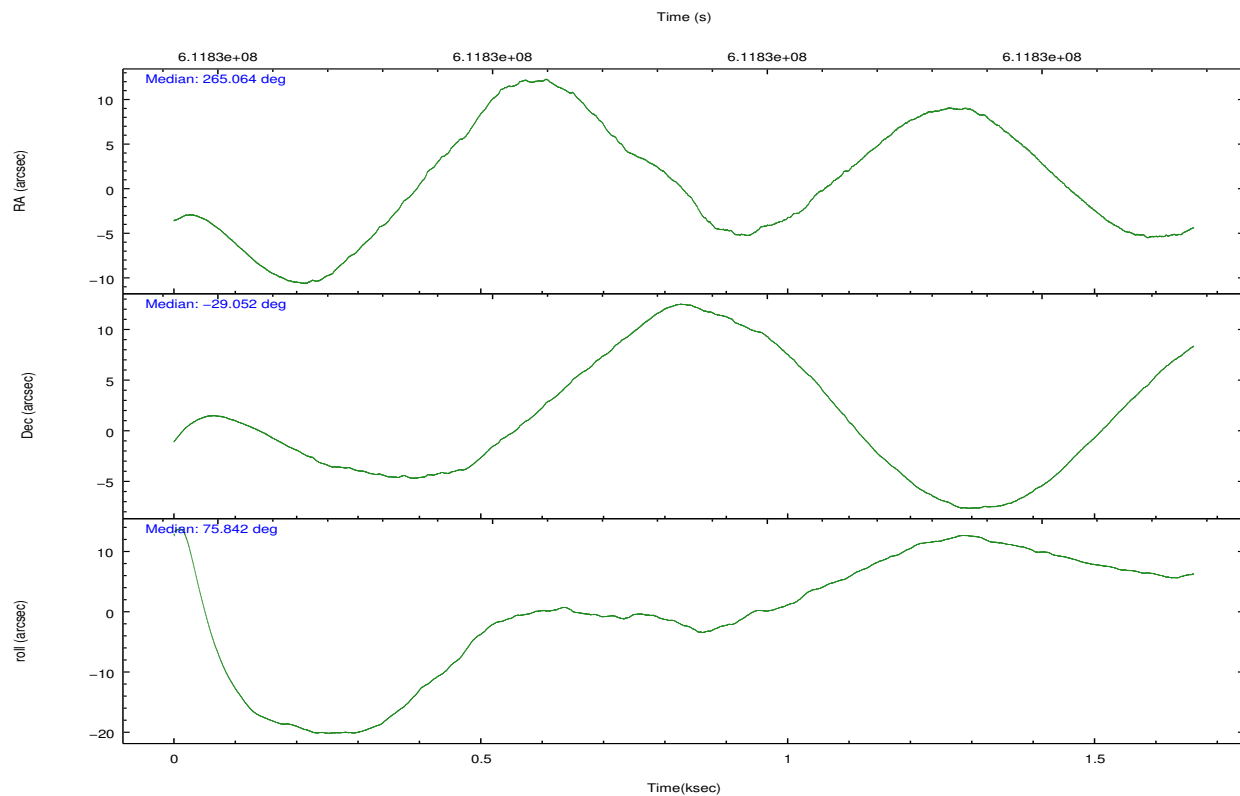
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.073430	265.0639288694092
[deg] Pointing Dec	-29.077953	-29.05187694548116
[deg] Pointing Roll	75.634430	75.83904587914199
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	611826176.184000	611825151.6841201
Observation start date	2017-05-22T07:41:47	2017-05-22T07:25:51
[s] Observation end time (MET)	611827676.184000	611828070.88429
Observation end date	2017-05-22T08:06:47	2017-05-22T08:14:30
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





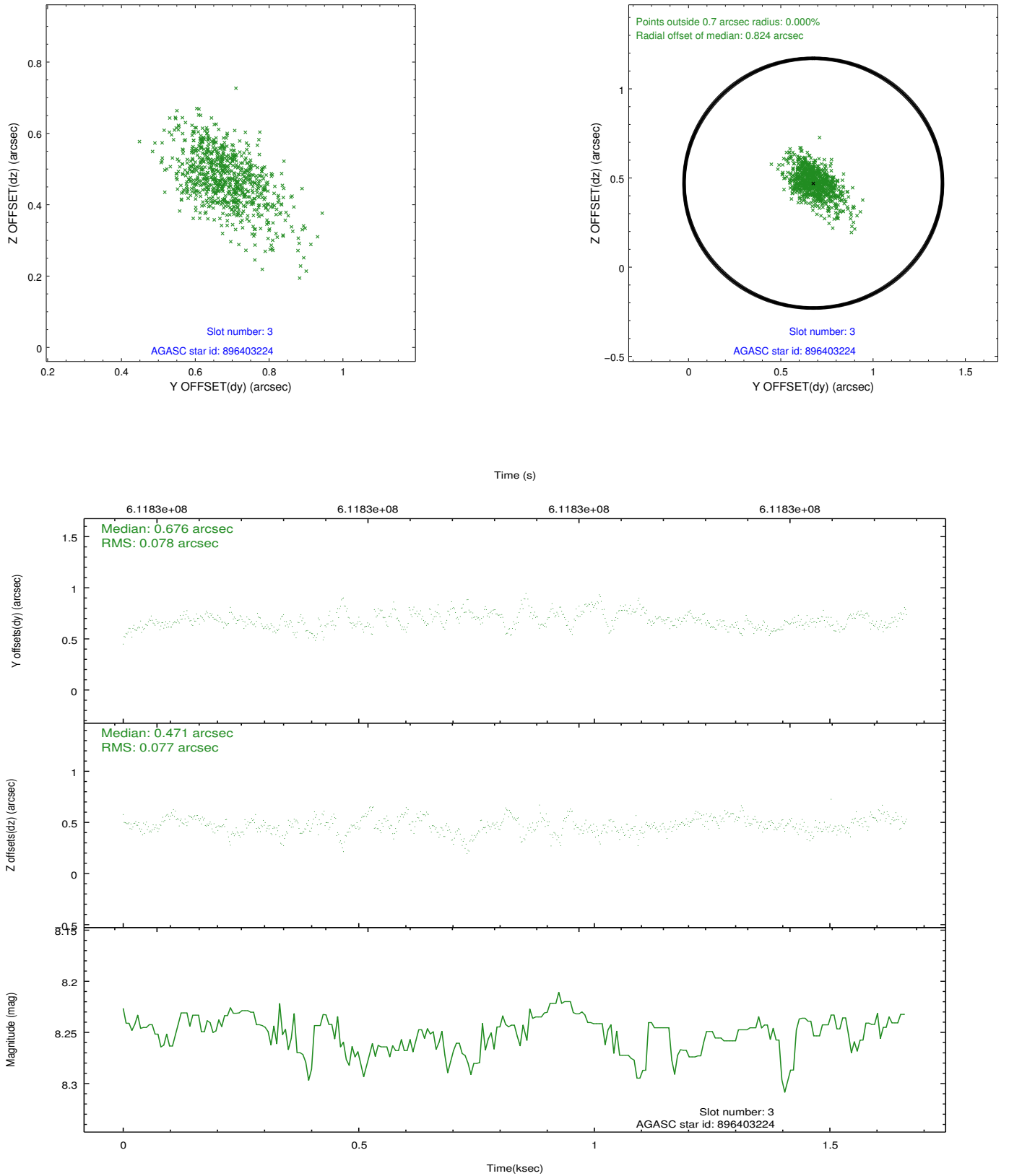
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.18	406	0.072	-0.068	0.006	0.012	0.000000	0.000000	921.93	-844.08
1	FID		ACIS-I-5	7.17	406	-0.385	0.016	0.006	0.009	0.000000	0.000000	-1824.55	1051.35
2	FID		ACIS-I-6	7.19	406	0.222	0.122	0.006	0.010	0.000000	0.000000	383.17	1700.57
3	GUIDE	used	896403224	8.25	811	0.676	0.471	0.109	0.206	265.612825	-29.438915	-840.41	-1963.46
4	GUIDE	used	896403520	8.97	811	-0.431	0.162	0.144	0.231	265.626481	-28.748780	1577.98	-1402.55
5	GUIDE	used	896404376	6.66	812	0.027	0.011	0.119	0.214	264.835179	-29.530972	-1761.37	314.37
6	GUIDE	used	896405616	7.82	812	-0.116	-0.288	0.118	0.273	264.752771	-28.412560	2065.94	1576.31
7	GUIDE	used	896405976	9.04	811	-0.151	-0.363	0.146	0.247	264.638127	-28.604395	1312.65	1754.52

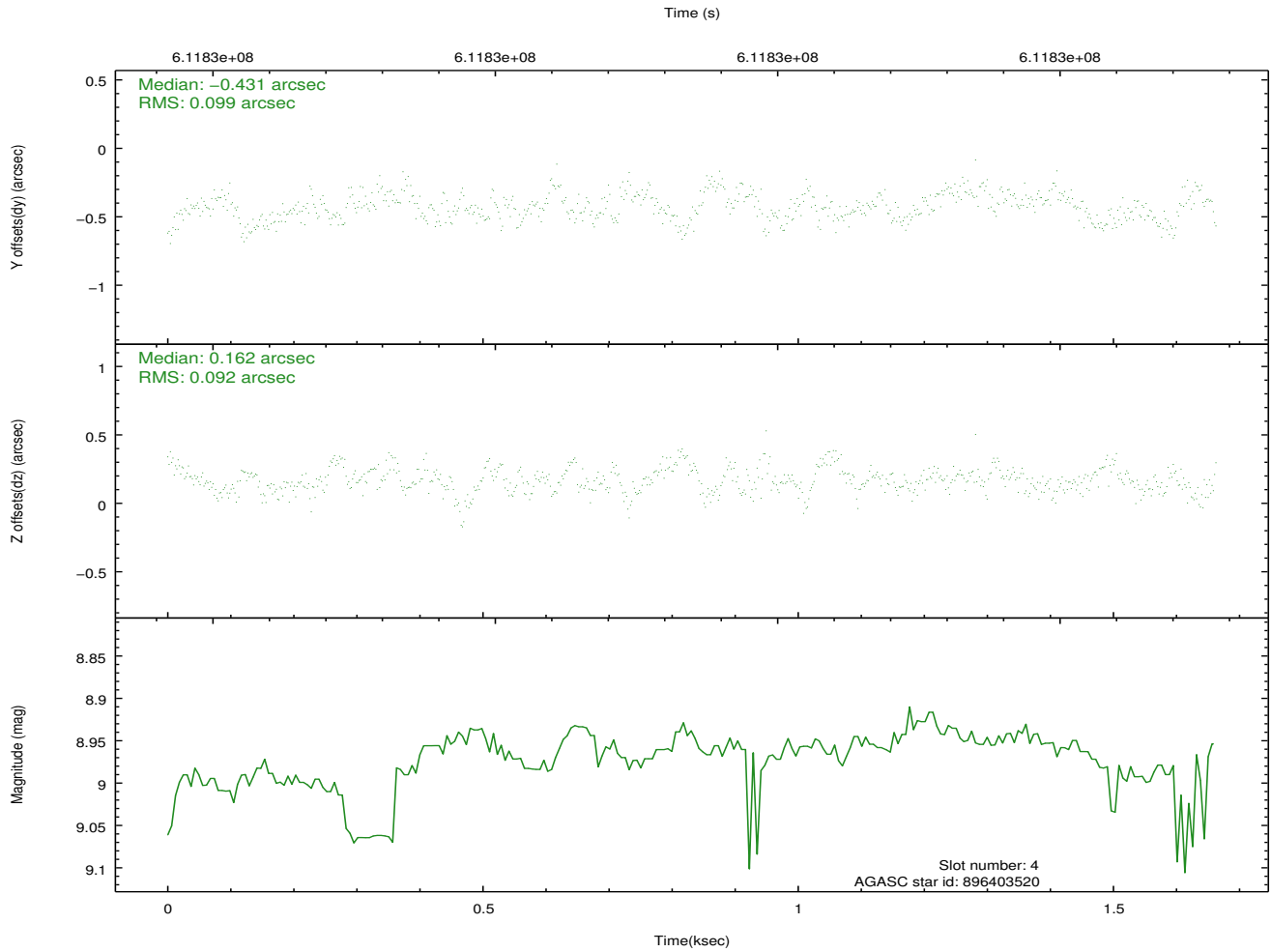
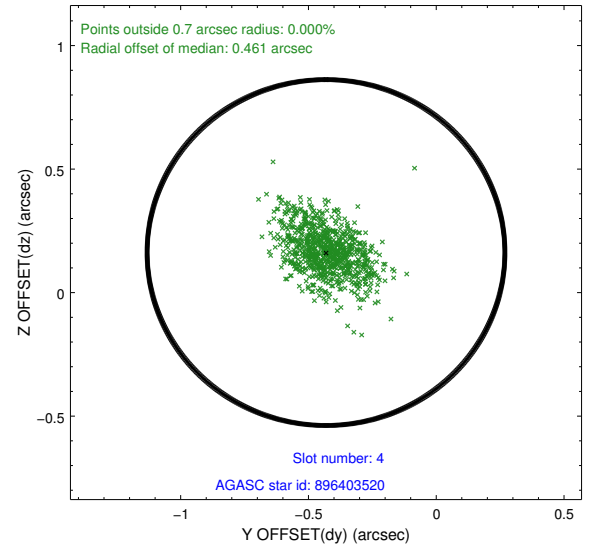
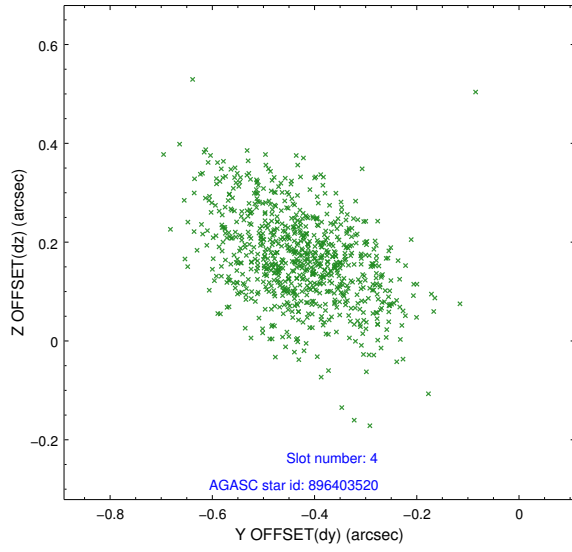


## 2.4 Star Slots

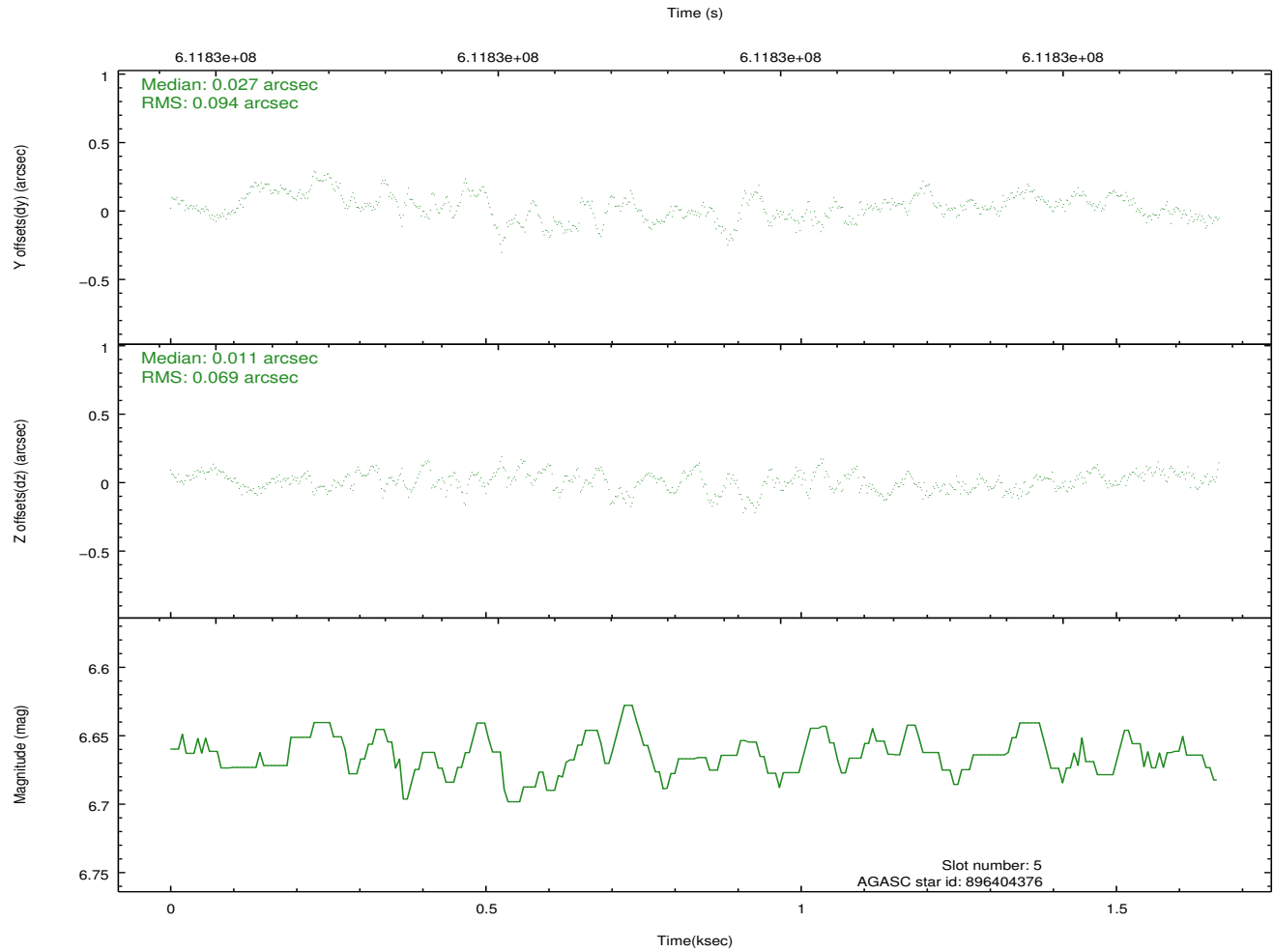
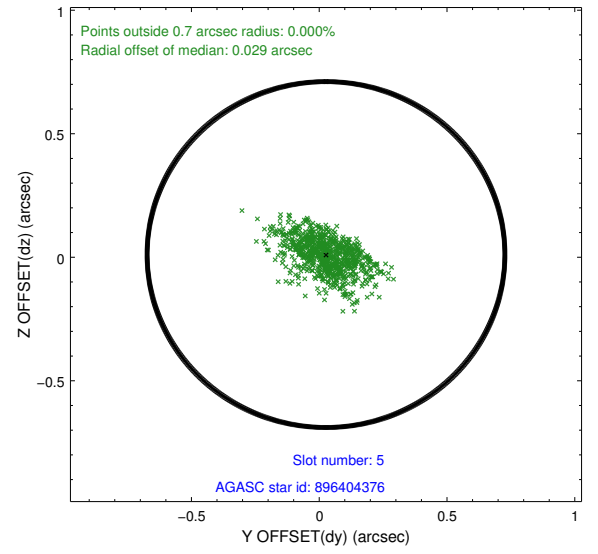
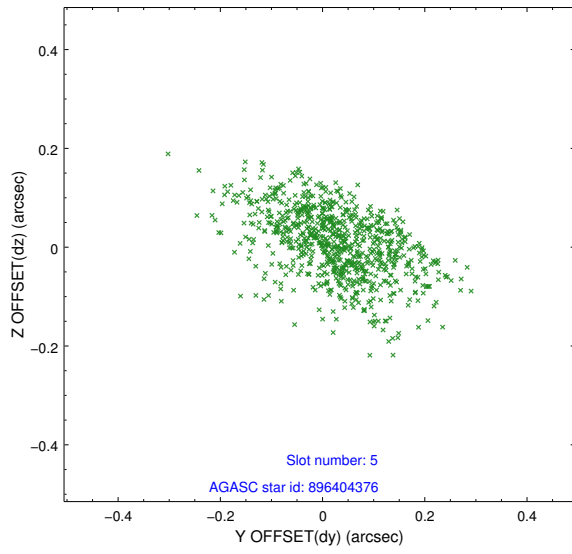
### 2.4.1 Slot 3



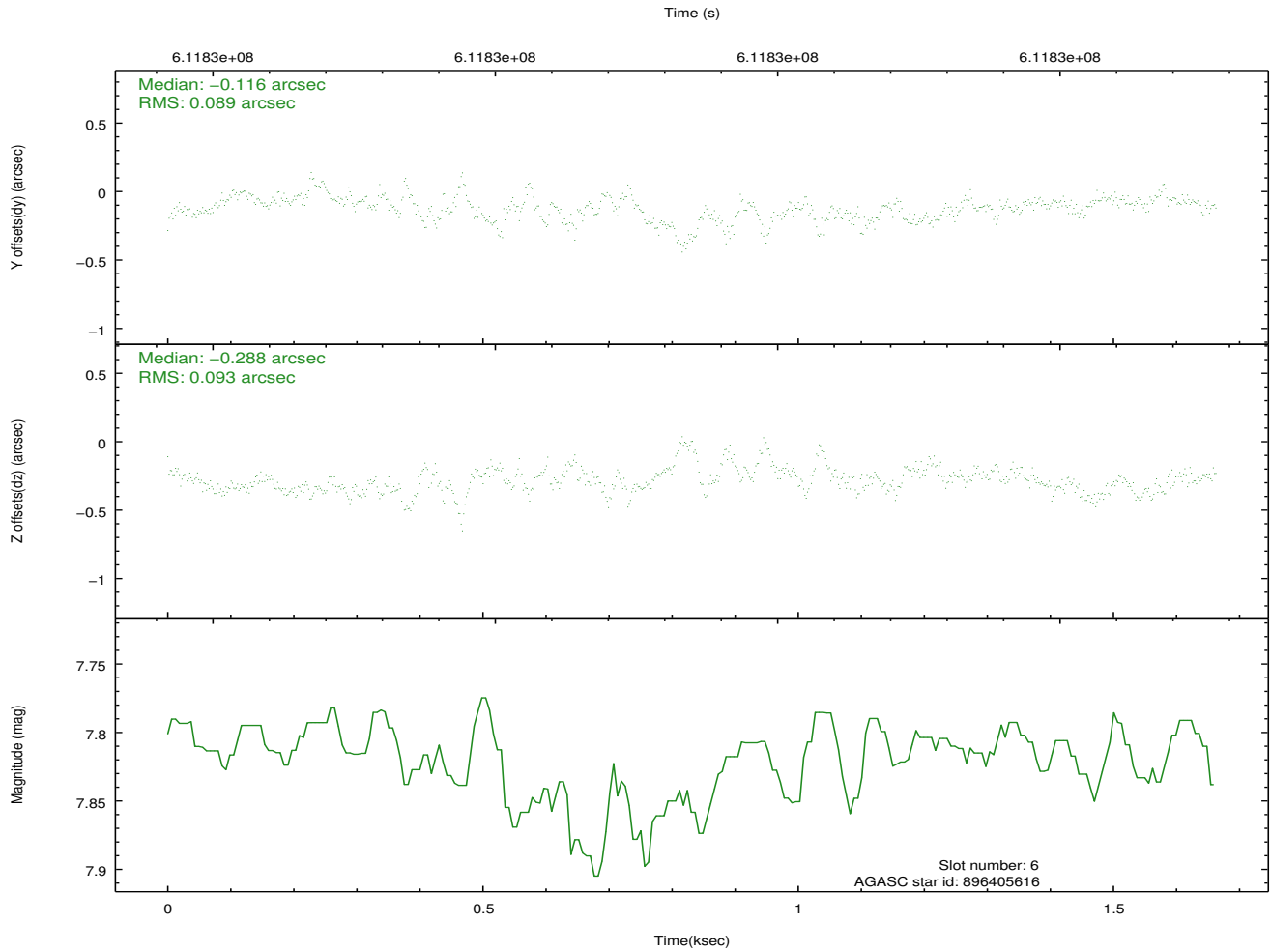
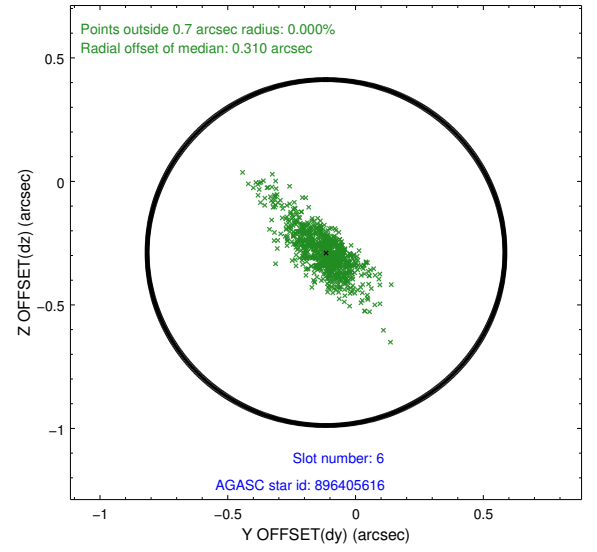
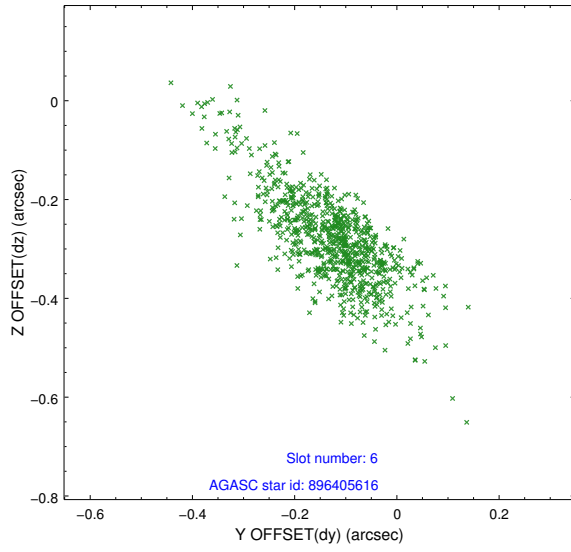
## 2.4.2 Slot 4



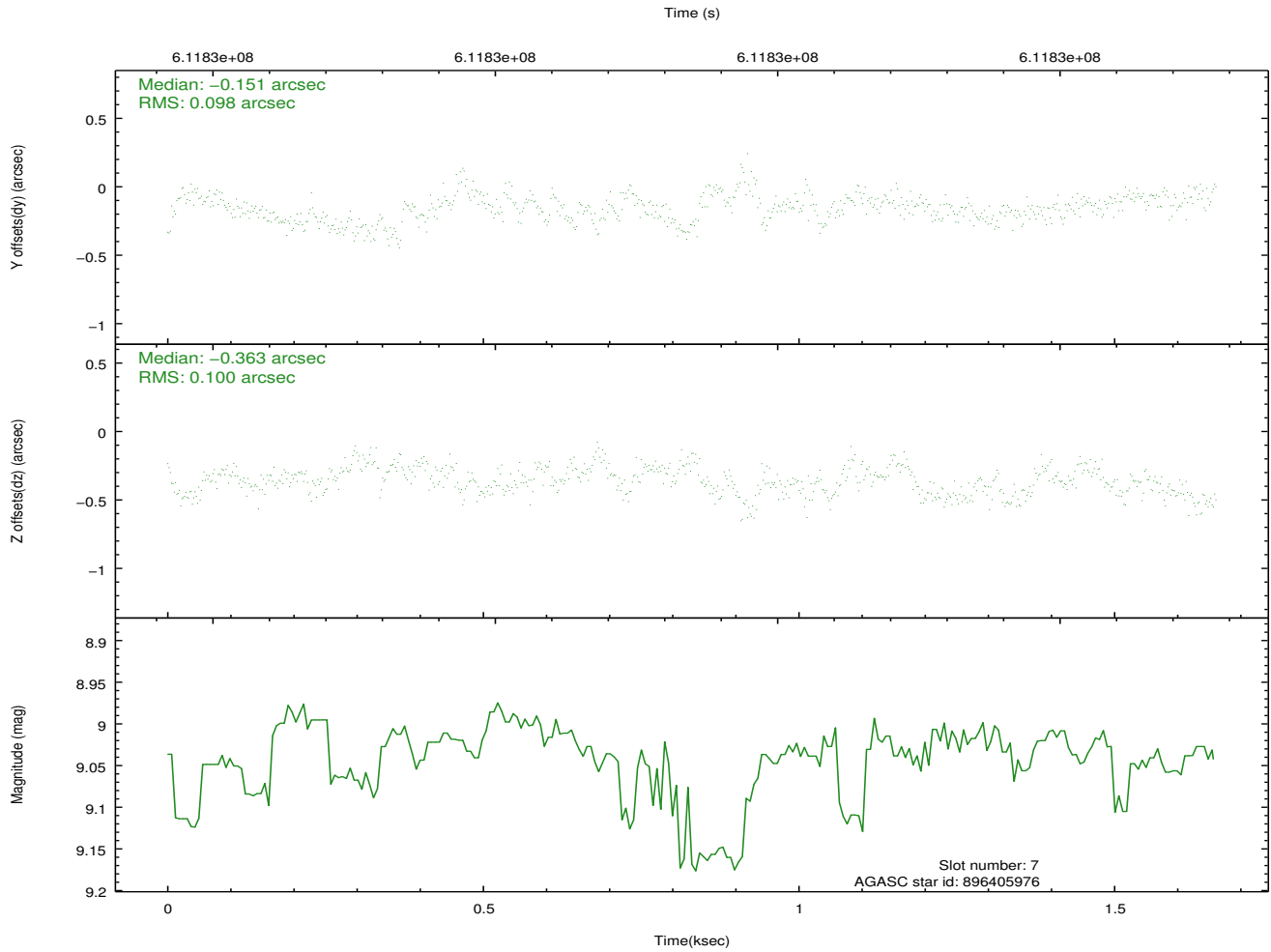
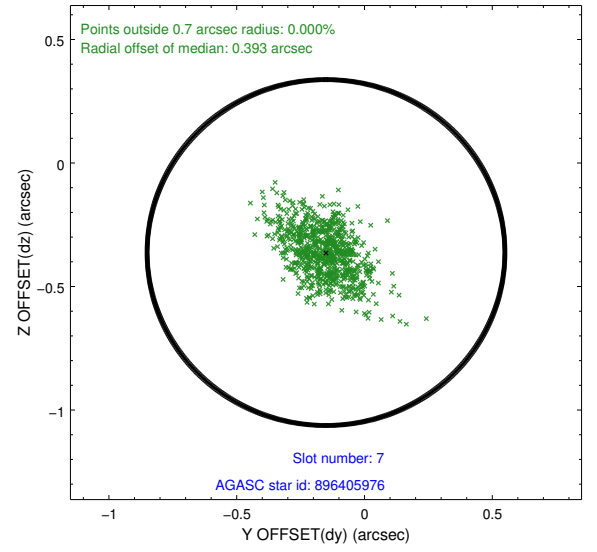
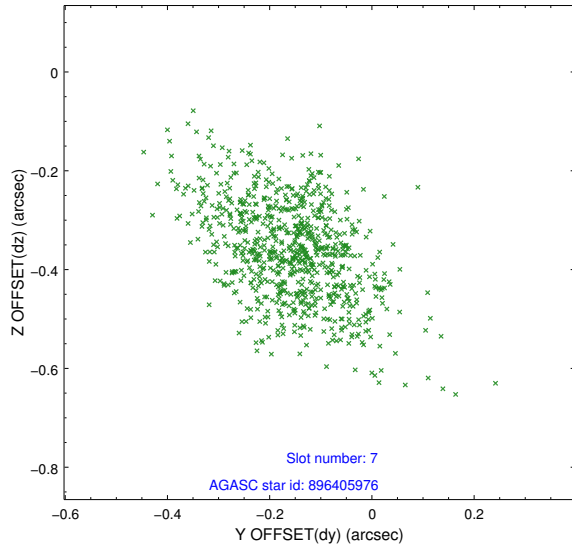
### 2.4.3 Slot 5



## 2.4.4 Slot 6

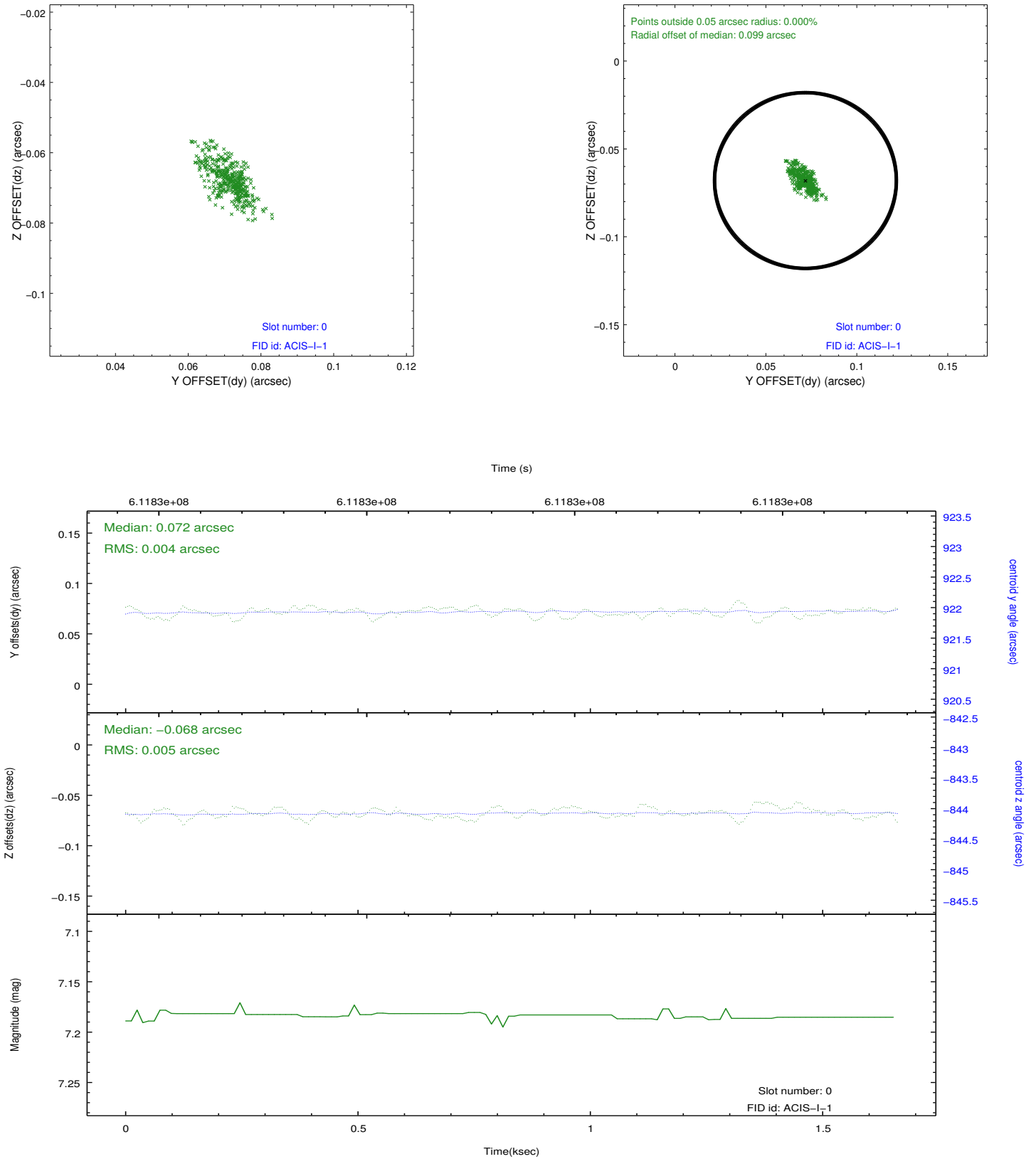


## 2.4.5 Slot 7

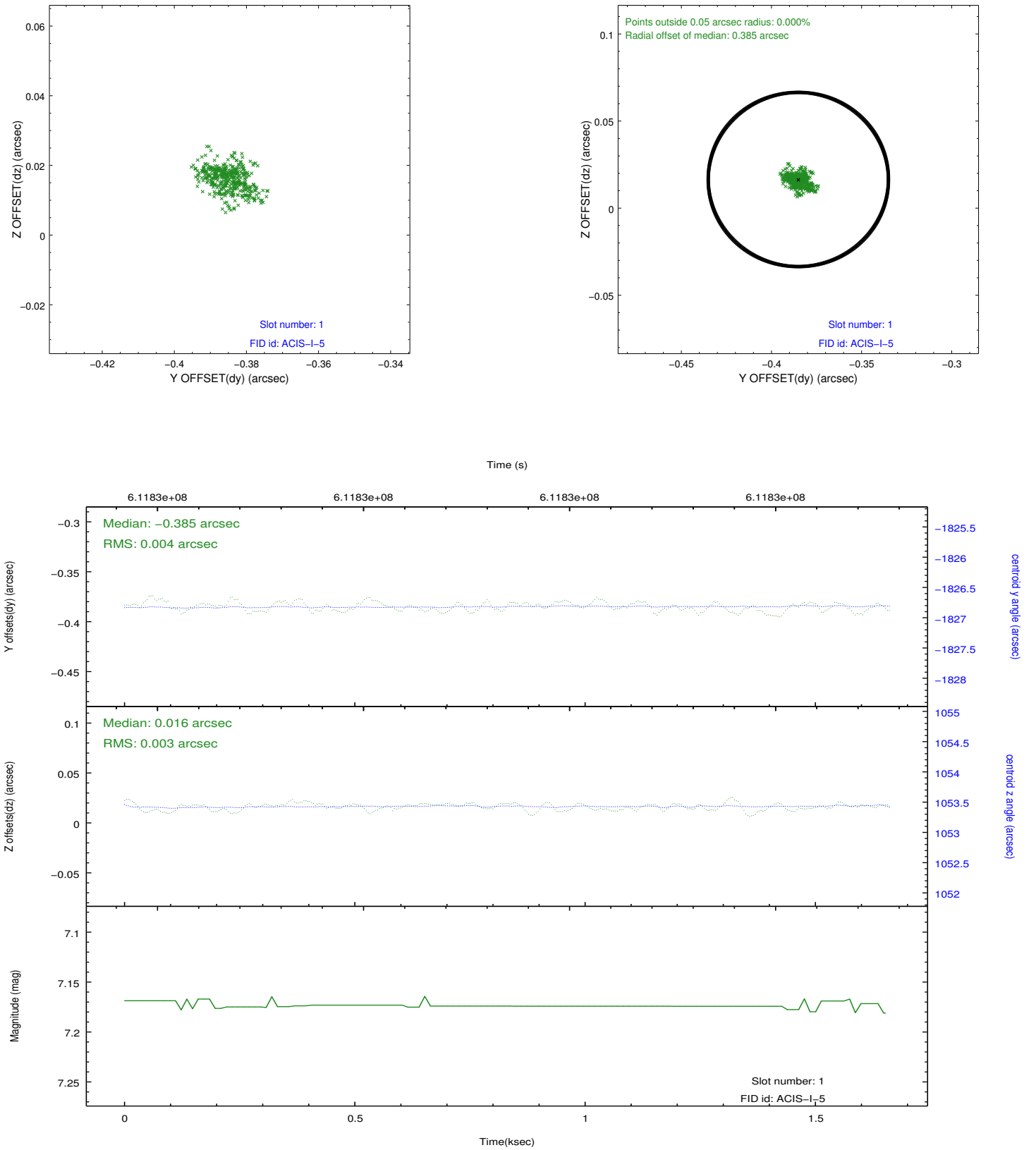


## 2.5 FID Slots

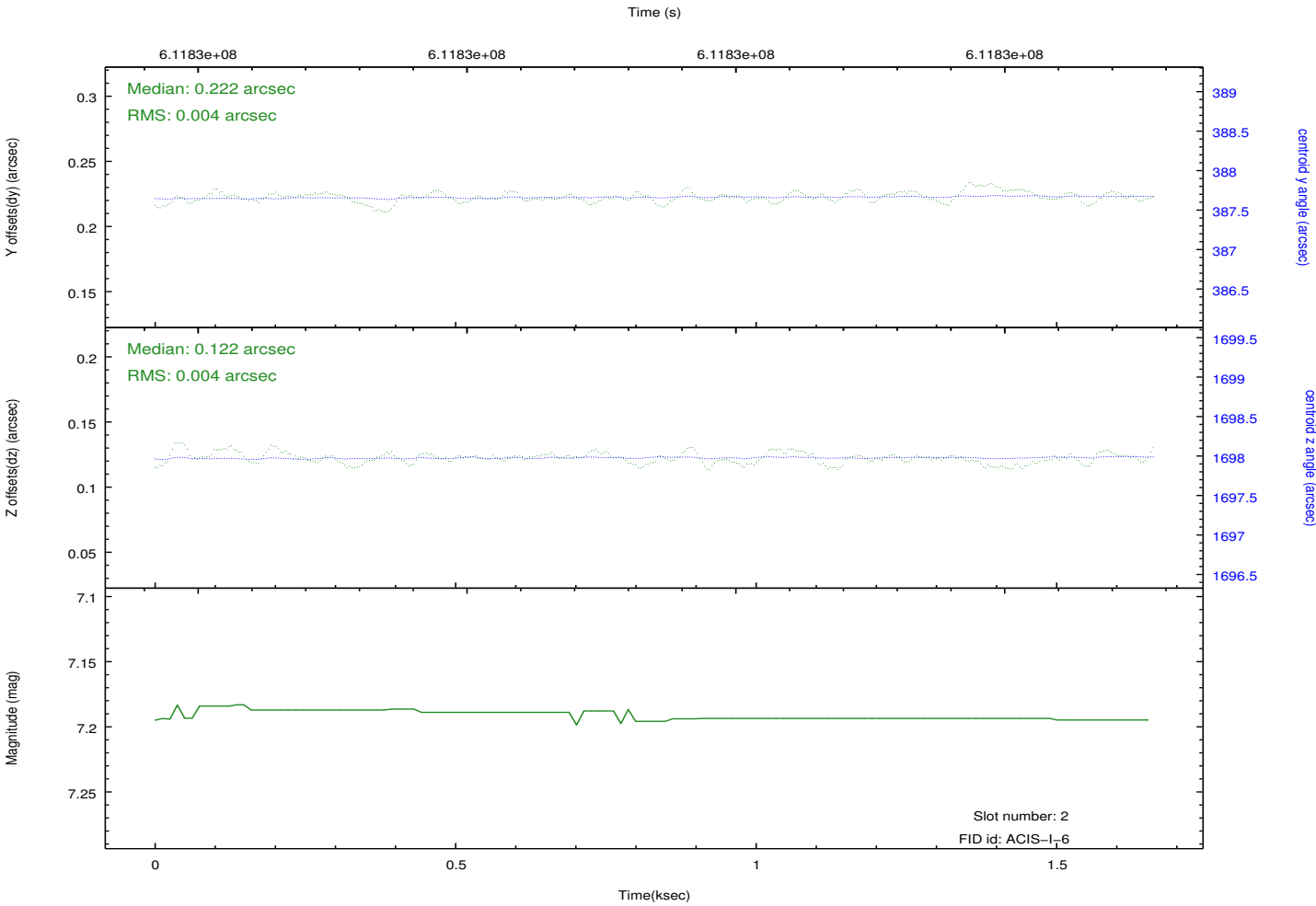
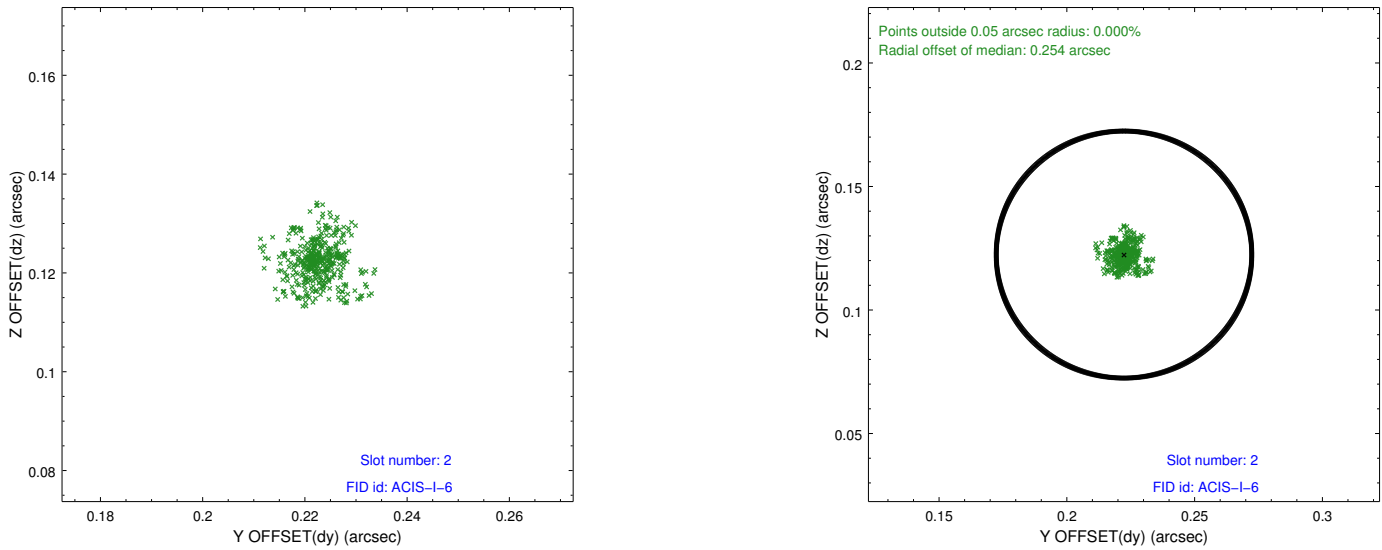
### 2.5.1 Slot 0



## 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)	2017.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5686000121832

### A.2 Comments