

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 13882 - L2 Version 2  
Chandra X-Ray Center

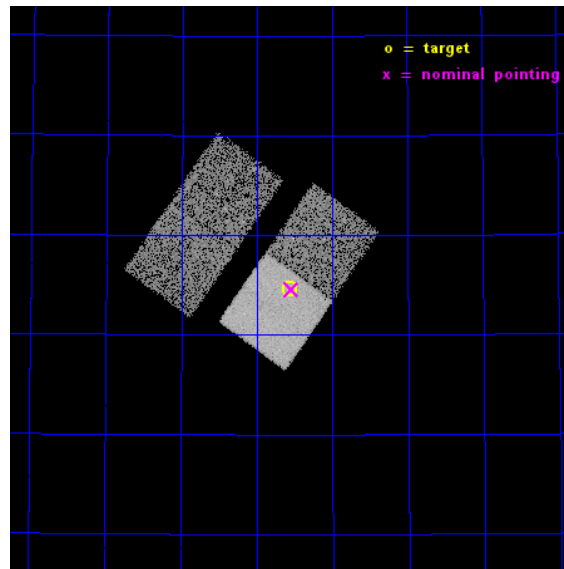
L2 Processing Date : Nov 30 2014

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# 1 Front

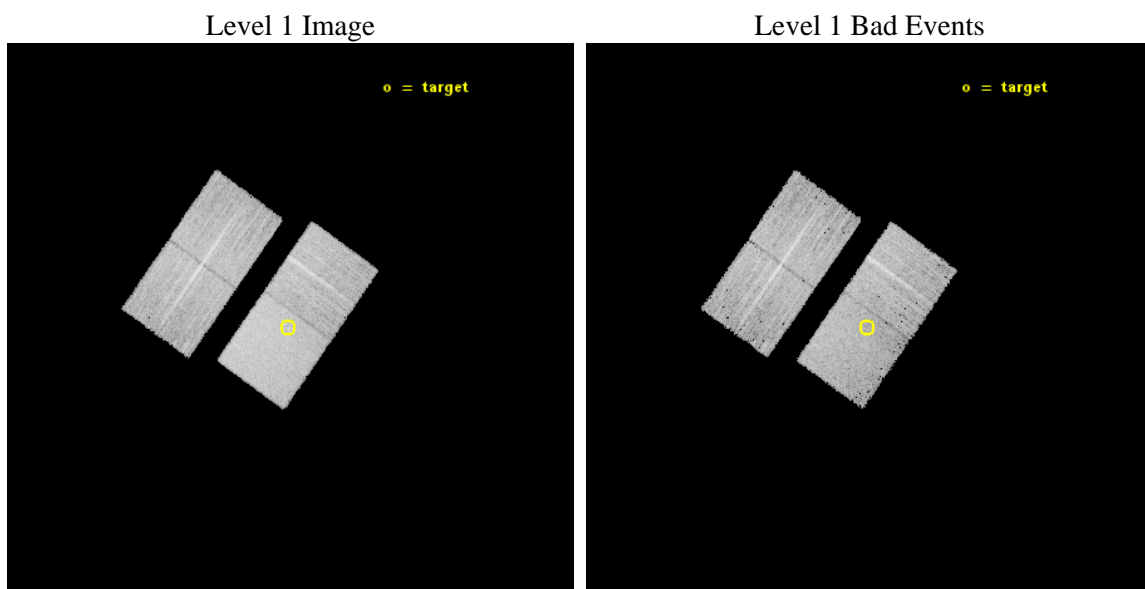
seq_num	702607	Sequence number
obs_id	13882	Observation id
title	Extending the Chandra 3C Snapshot Survey: Radio Galaxies with 0.3	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3c244.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.391667	Observer's specified target RA [deg]
dec_targ	58.243056	Observer's specified target Dec [deg]
ra_nom	158.38585203088	Nominal RA [deg]
dec_nom	58.242921516084	Nominal Dec [deg]
roll_nom	125.27026163188	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12074.239342928	Sum of GTIs [s]
livetime	11916.480516987	Livetime [s]
ontime2	12074.116222918	Sum of GTIs [s]
ontime3	12074.157262921	Sum of GTIs [s]
ontime6	12071.05726254	Sum of GTIs [s]
ontime7	12074.239342928	Sum of GTIs [s]
l2events	57374	Number of level 2 events



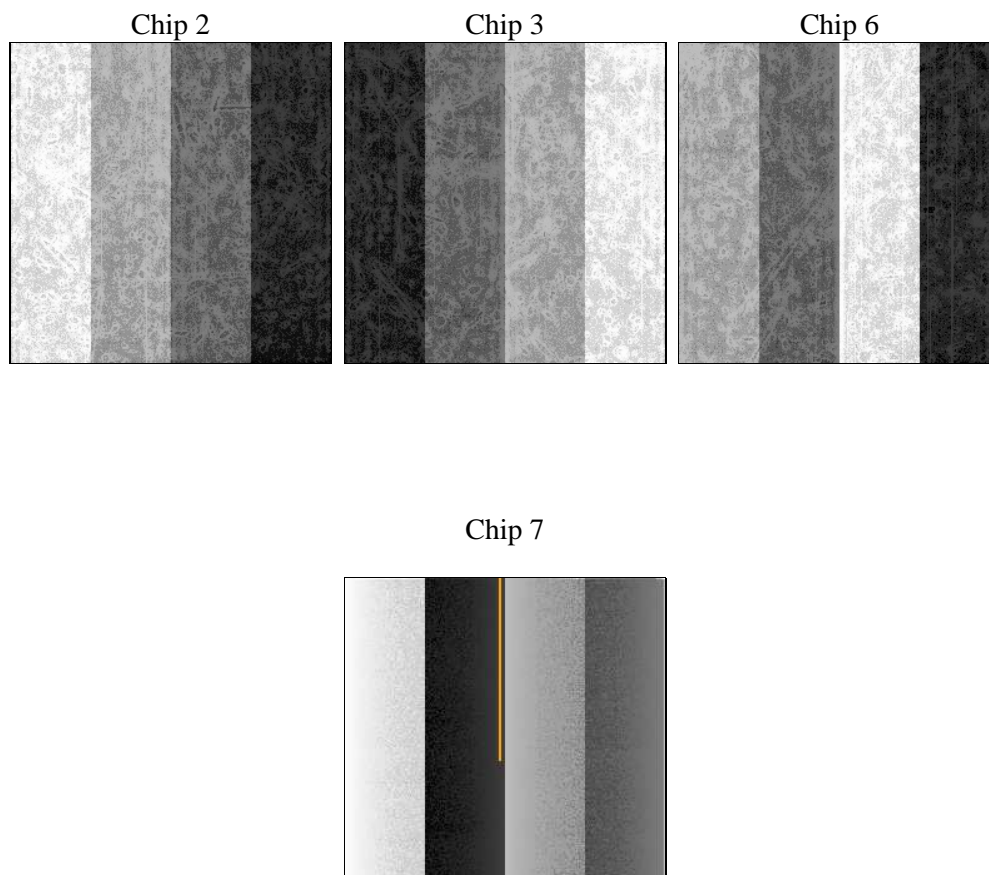
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	12074.239342928	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime2	12074.116222918	Sum of GTIs [s]
date	2014-12-01T08:28:59	Date and time of file creation	ontime3	12074.157262921	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12071.05726254	Sum of GTIs [s]
			ontime7	12074.239342928	Sum of GTIs [s]
			l1events	284633	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	65673	63719	66714	88527
rejected events	58178	56621	58758	49875
rejected %	88%	88%	88%	56%

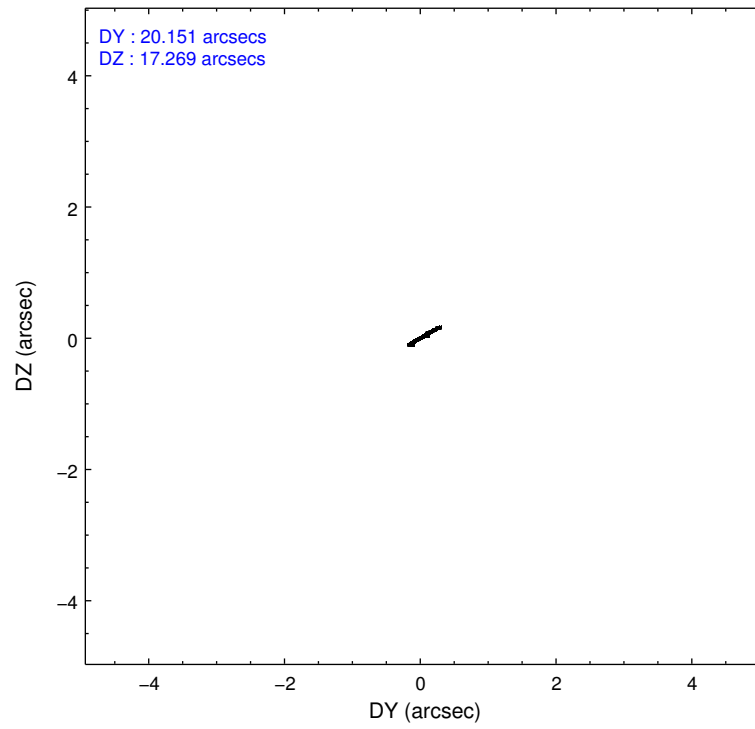
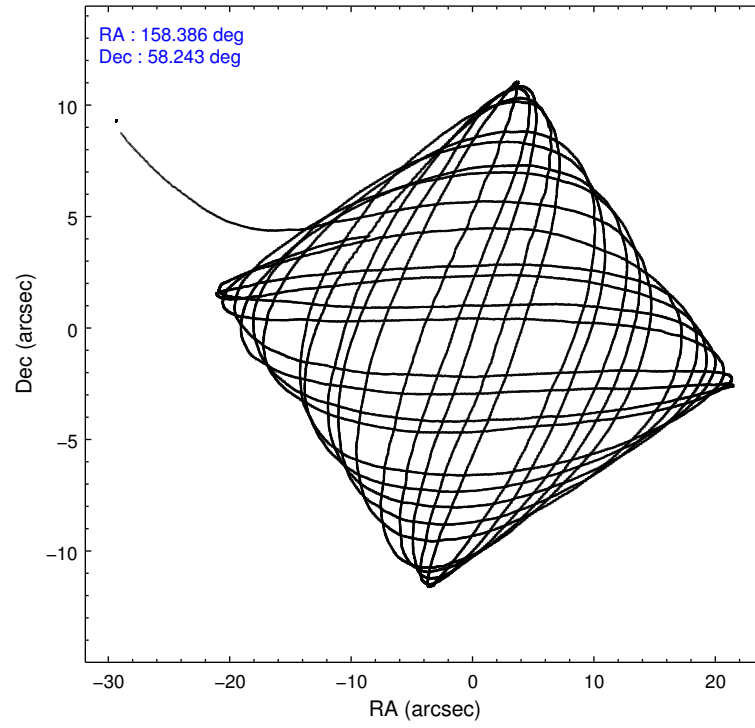
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2658	2417	2763	3431
	4%	3%	4%	3%
grade 1 events	32	30	37	122
	0%	0%	0%	0%
grade 2 events	1833	1584	1778	7968
	2%	2%	2%	9%
grade 3 events	774	756	802	3188
	1%	1%	1%	3%
grade 4 events	746	761	777	3281
	1%	1%	1%	3%
grade 5 events	2750	3482	3430	9072
	4%	5%	5%	10%
grade 6 events	1486	1582	1842	20806
	2%	2%	2%	23%
grade 7 events	55394	53107	55285	40659
	84%	83%	82%	45%

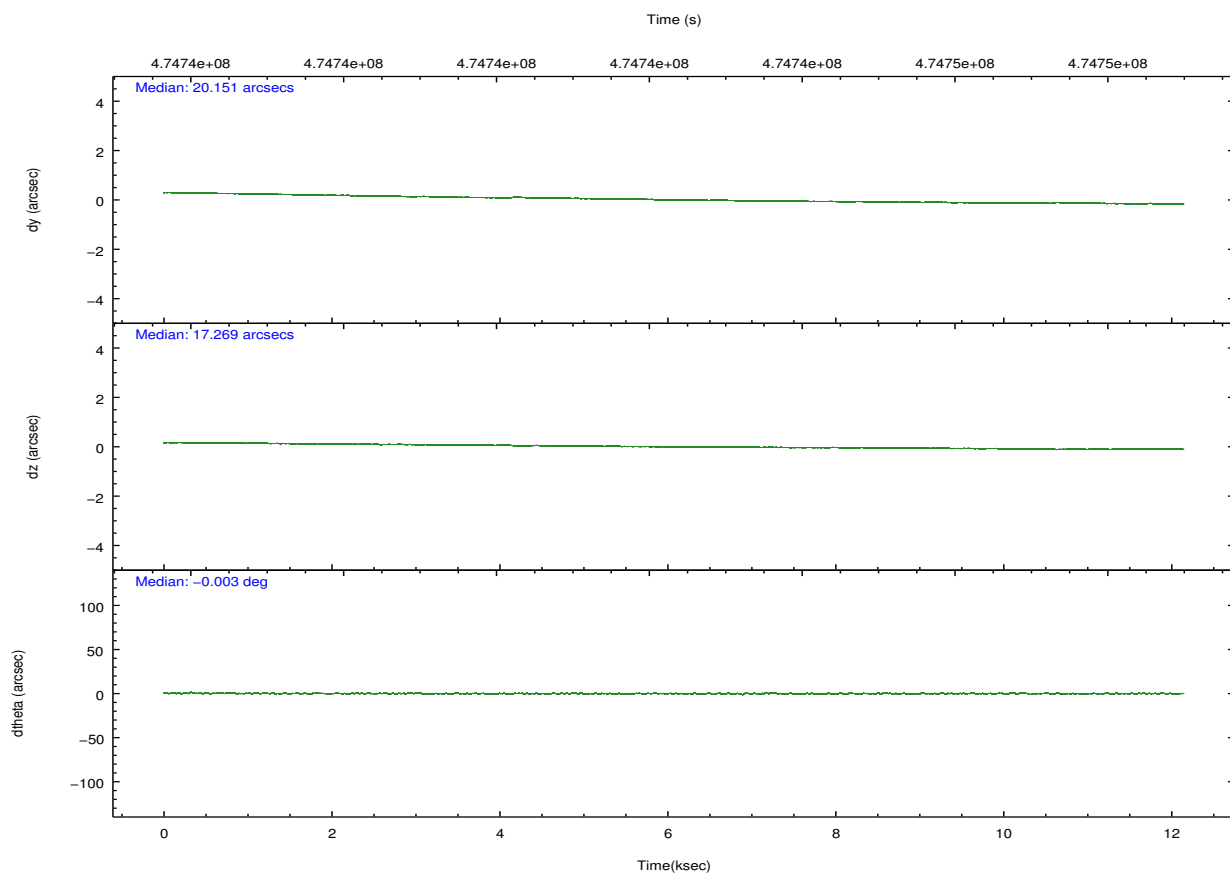
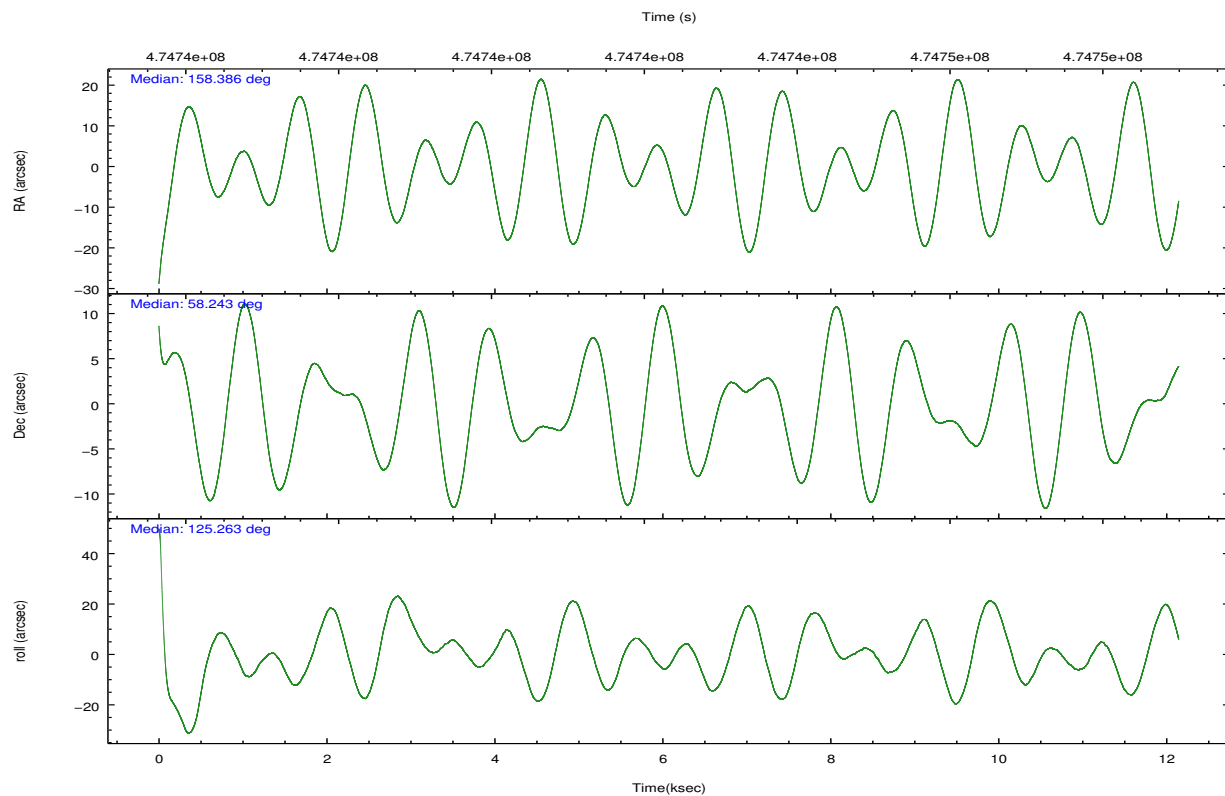


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	158.433384	158.3858520308753	CCD I2 on	O1	Y
[deg] Pointing Dec	58.231796	58.24292151608447	CCD I3 on	O2	Y
[deg] Pointing Roll	125.073161	125.2702616318816	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	N	N
[s] Observation start time (MET)	474736398.184000	474735210.889	CCD S5 on	N	N
Observation start date	2013-01-16T15:12:11	2013-01-16T14:53:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	474748398.184000	474749057.10225	On-chip summing requested	N	N
Observation end date	2013-01-16T18:32:11	2013-01-16T18:44:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



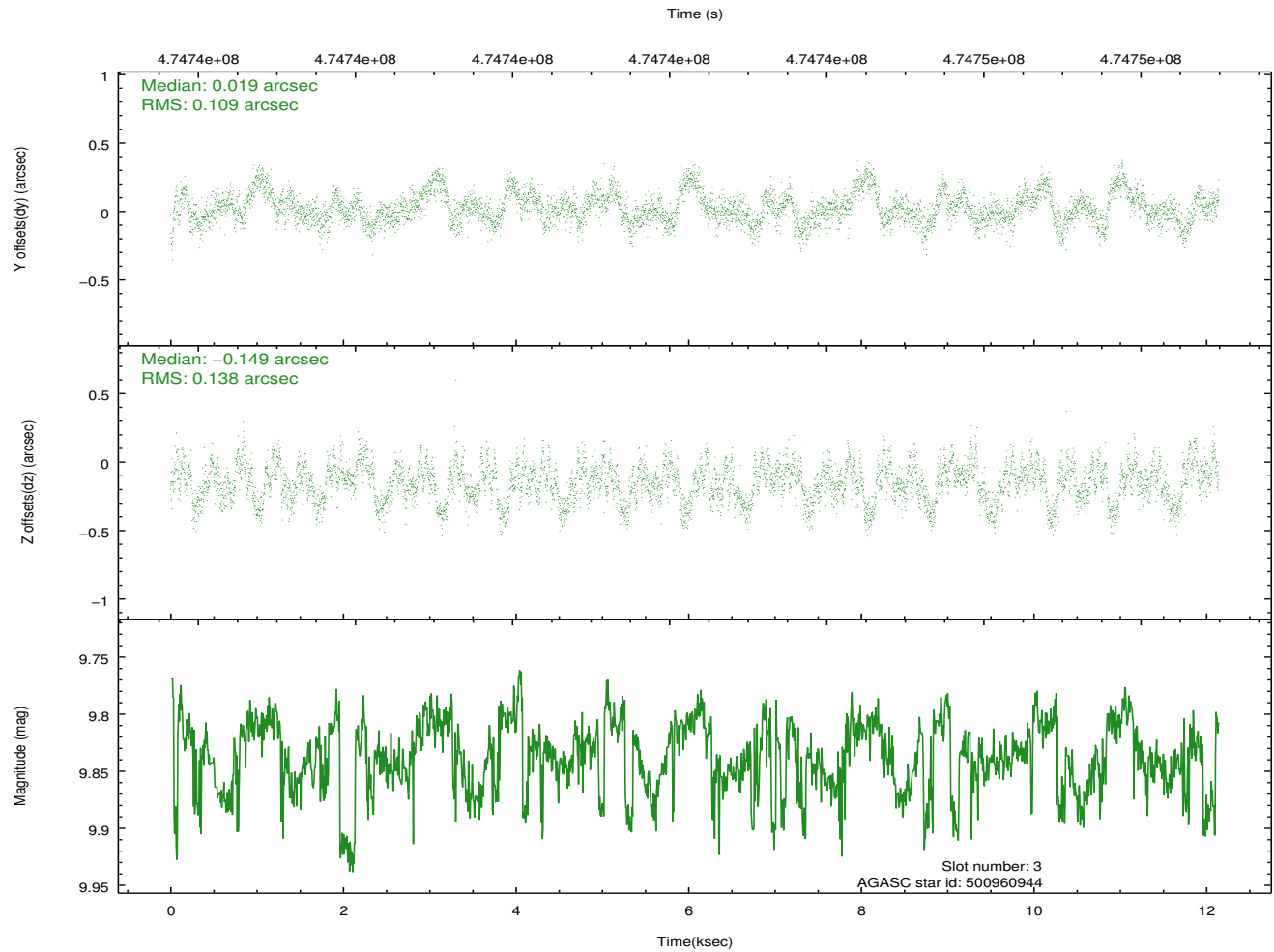
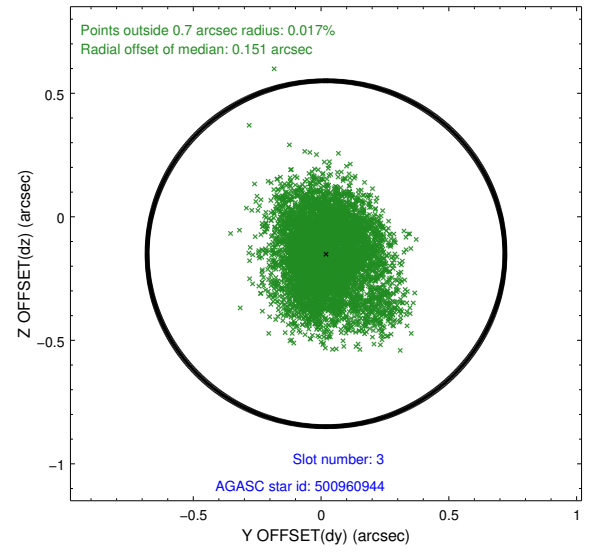
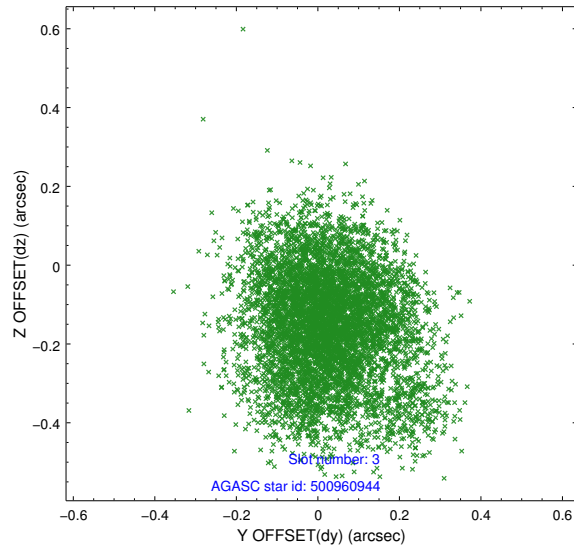


### Slot Statistics

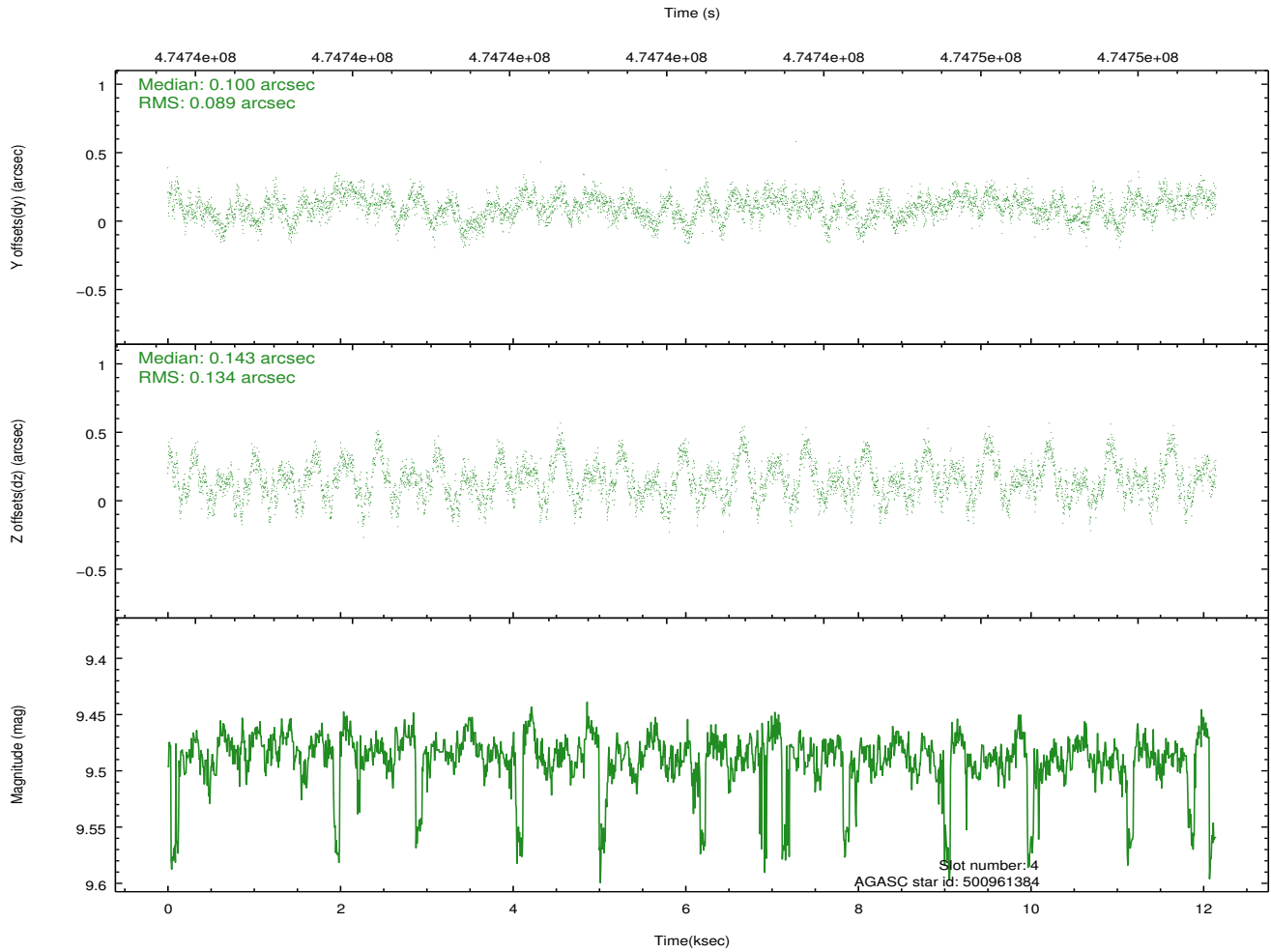
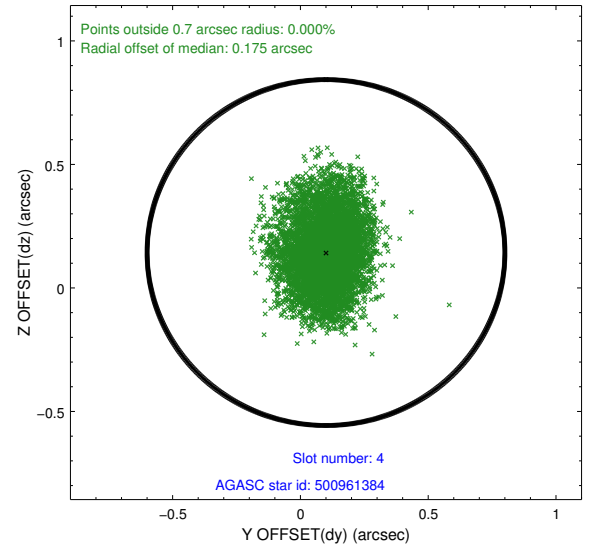
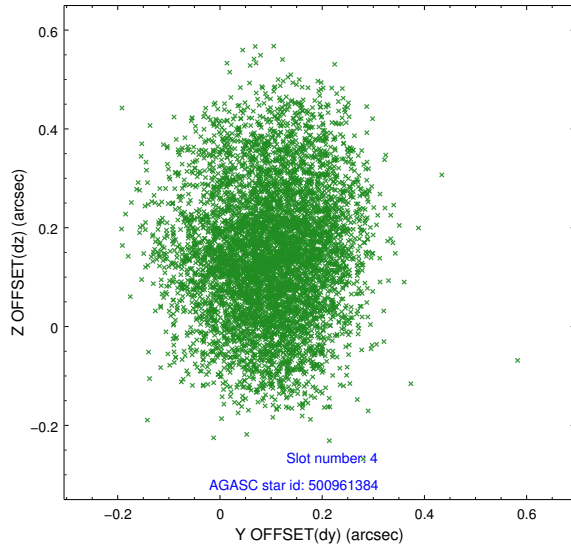
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	2962	-0.133	-0.069	0.008	0.013	0.000000	0.000000	-773.46	-1738.72
1	FID		ACIS-S-4	7.13	2961	0.305	0.082	0.006	0.011	0.000000	0.000000	2140.11	169.42
2	FID		ACIS-S-5	7.16	2962	-0.203	-0.005	0.007	0.012	0.000000	0.000000	-1825.81	163.56
3	GUIDE	used	500960944	9.84	5877	0.019	-0.149	0.189	0.307	157.785286	57.689555	-876.30	2138.81
4	GUIDE	used	500961384	9.49	5882	0.100	0.143	0.173	0.278	159.416101	58.123584	-1381.00	-1311.92
5	GUIDE	used	500962432	9.53	5918	0.082	0.156	0.146	0.223	158.977500	58.020820	-1214.49	-414.61
6	GUIDE	used	500965384	9.82	5918	0.165	0.340	0.134	0.215	159.003342	57.936270	-1493.14	-282.49
7	GUIDE	used	500962008	9.40	5915	-0.359	-0.474	0.149	0.248	157.299215	57.968258	481.95	2306.65

## 2.4 Star Slots

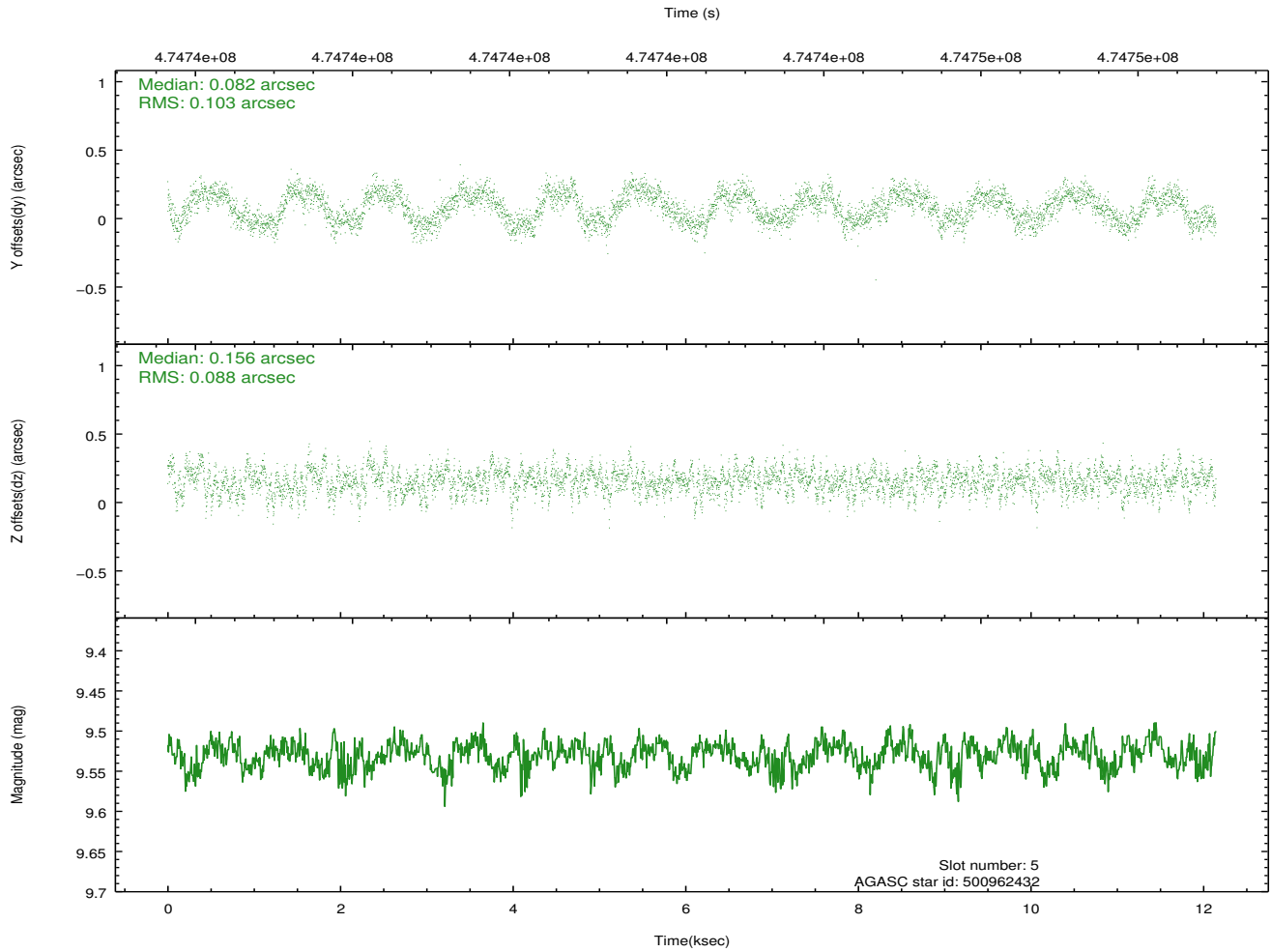
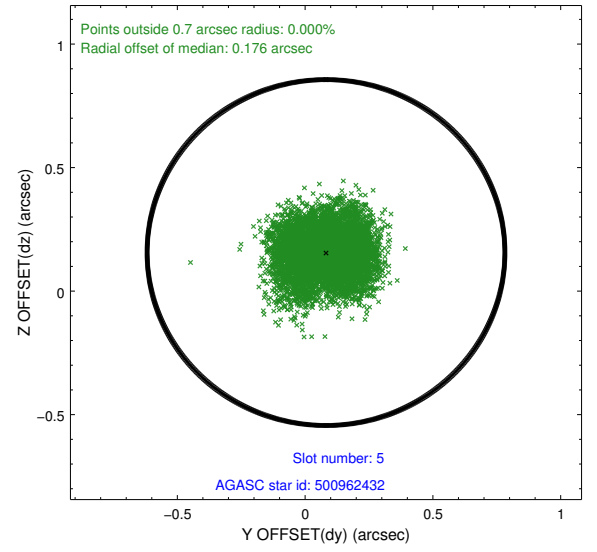
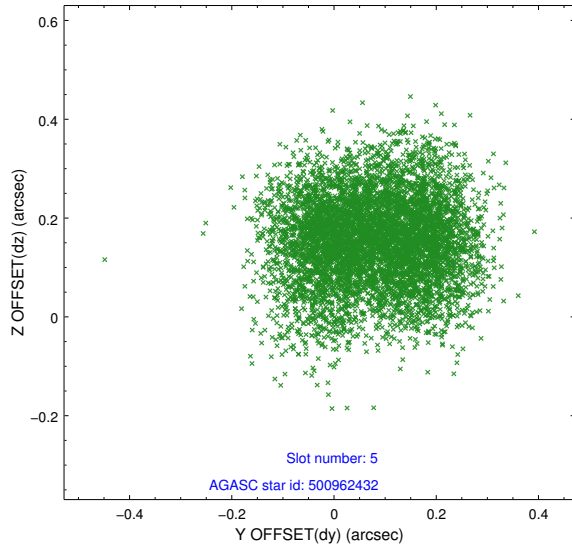
### 2.4.1 Slot 3



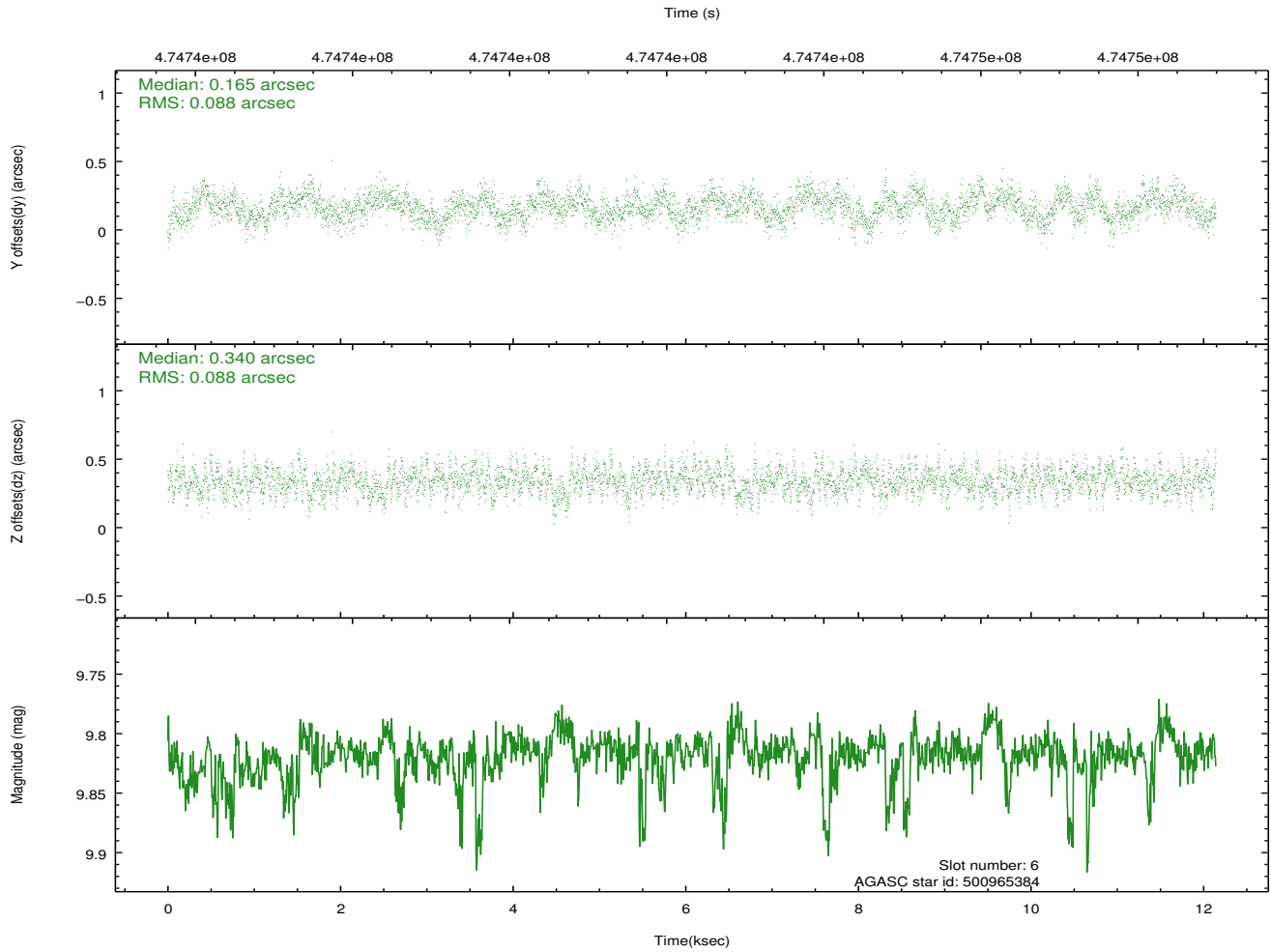
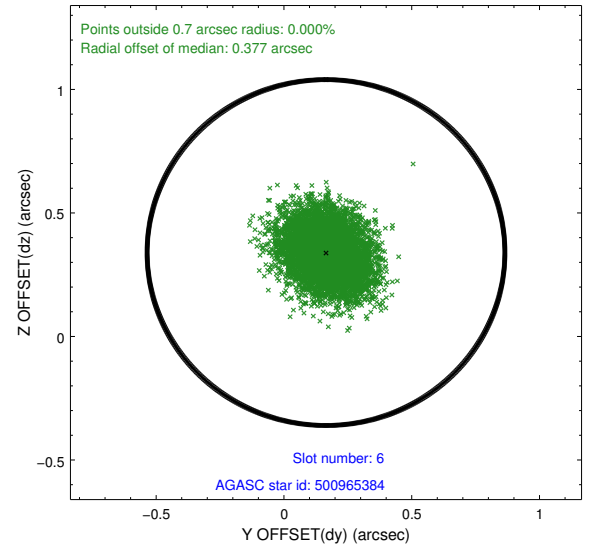
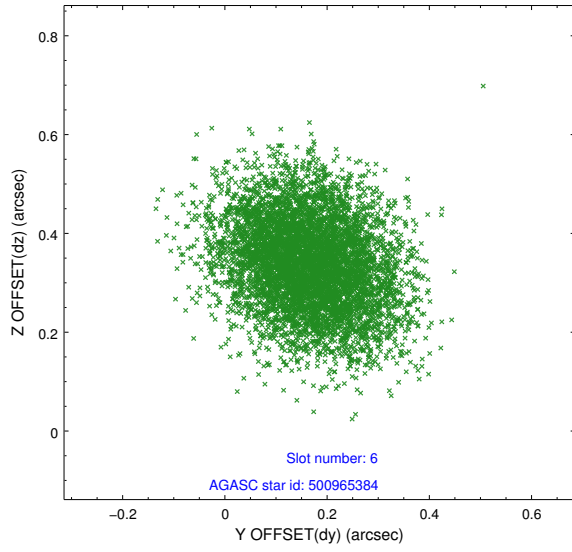
## 2.4.2 Slot 4



### 2.4.3 Slot 5

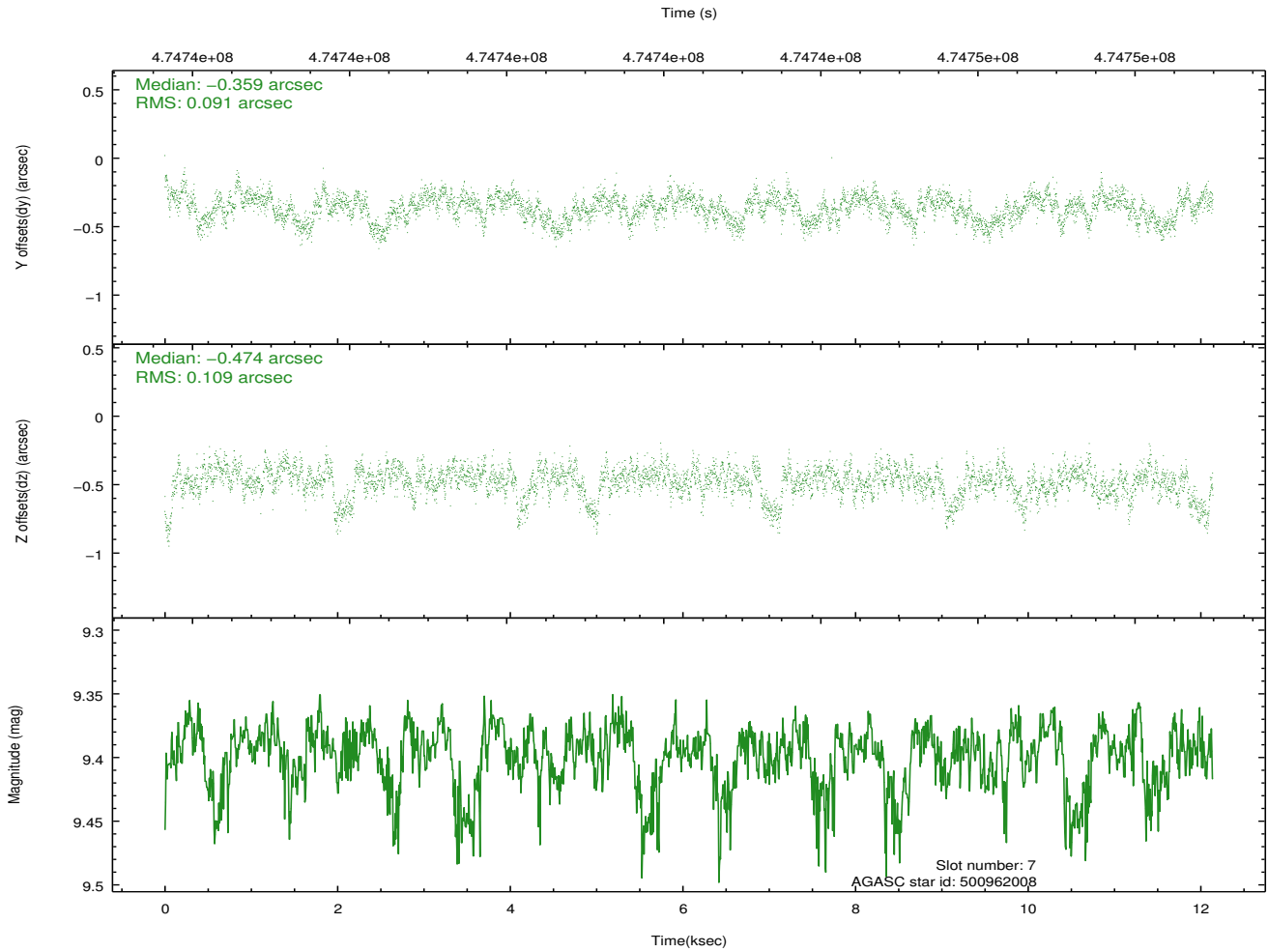
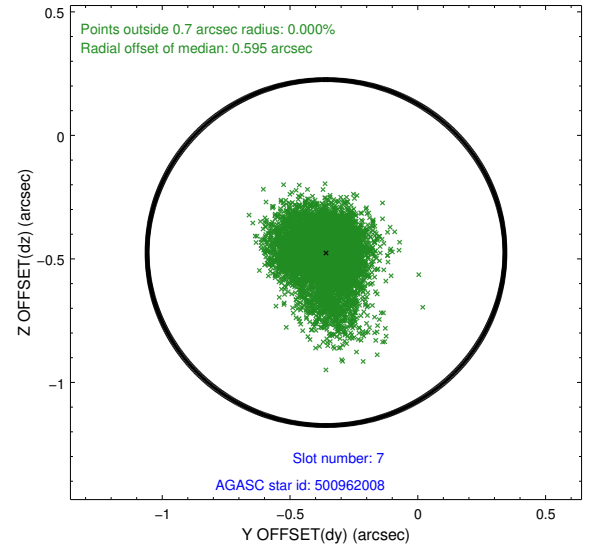
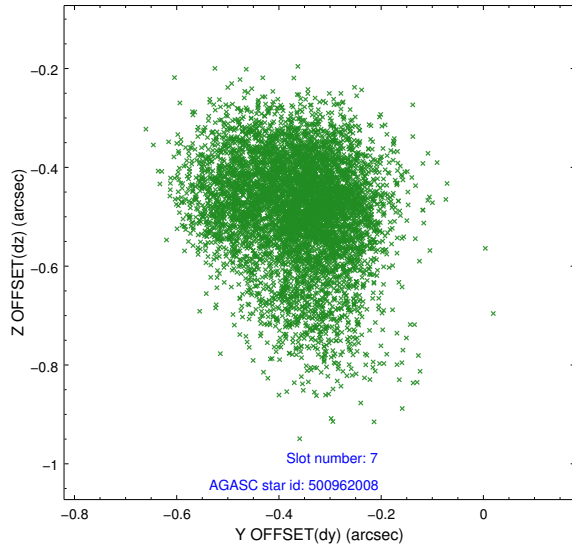


## 2.4.4 Slot 6



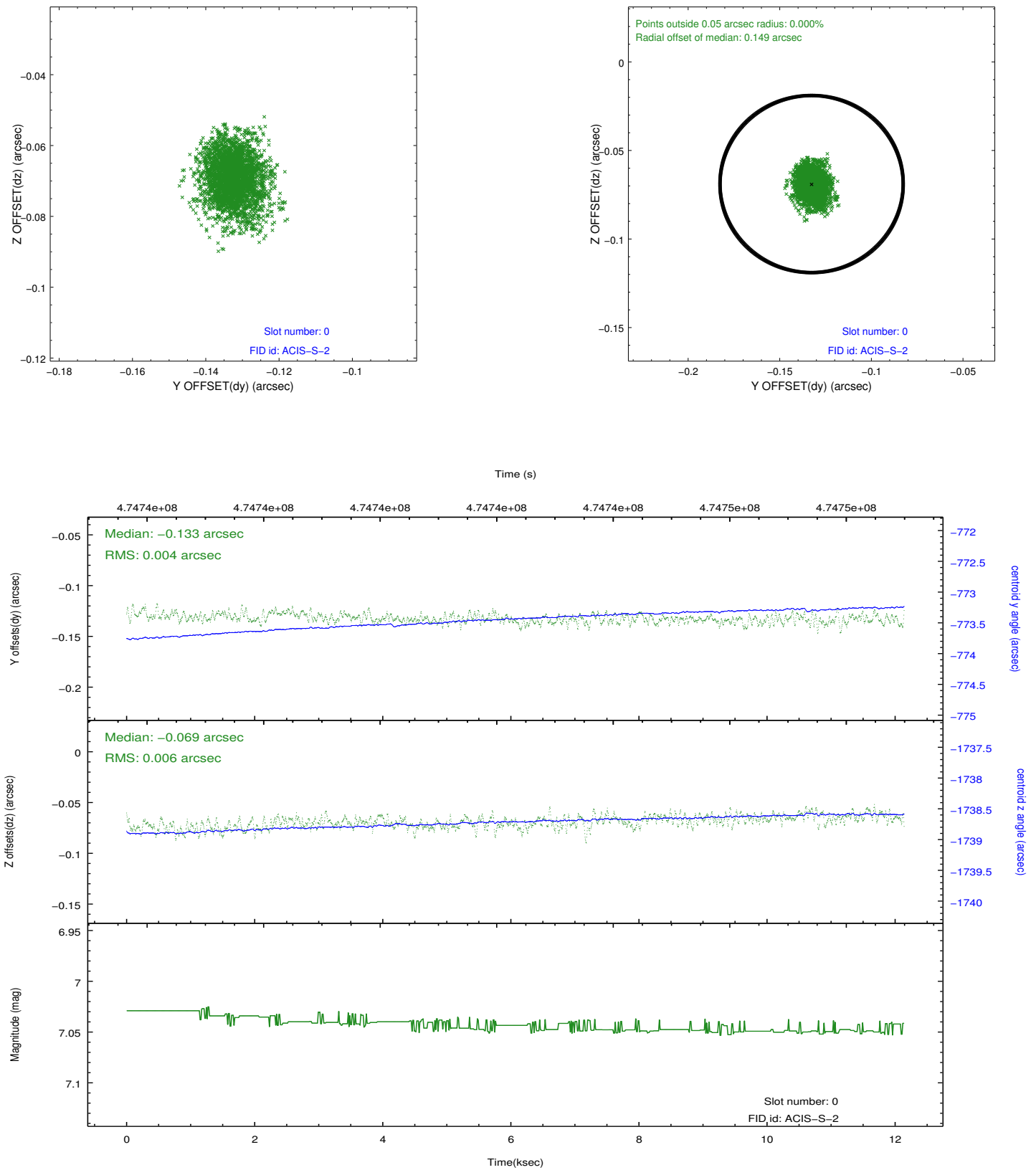


## 2.4.5 Slot 7

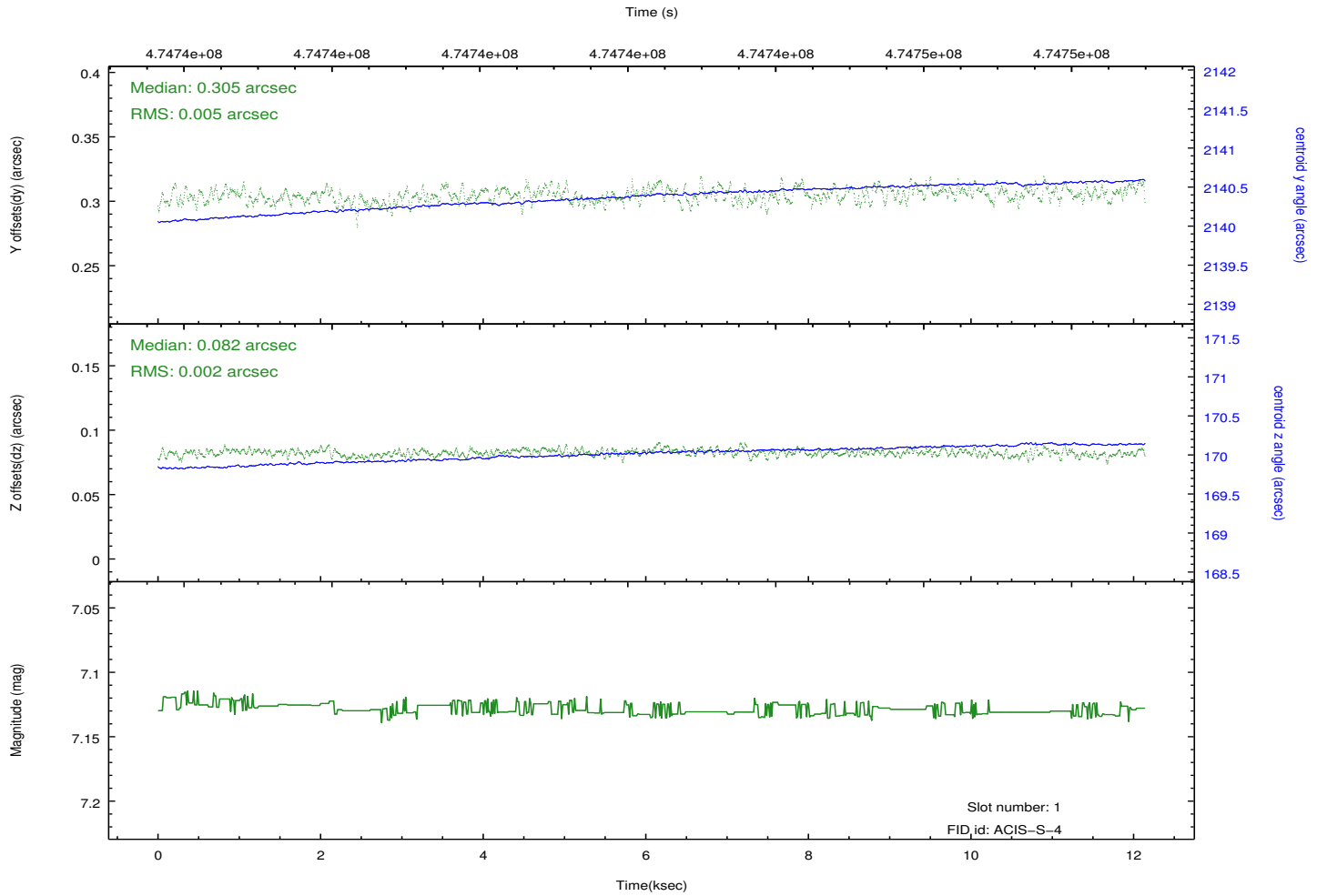
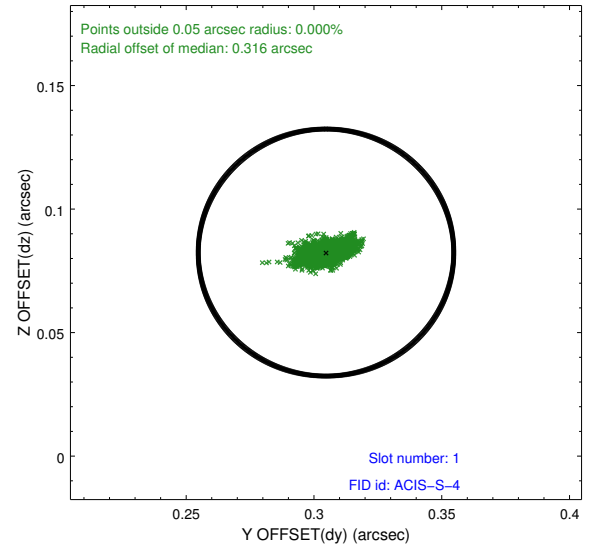
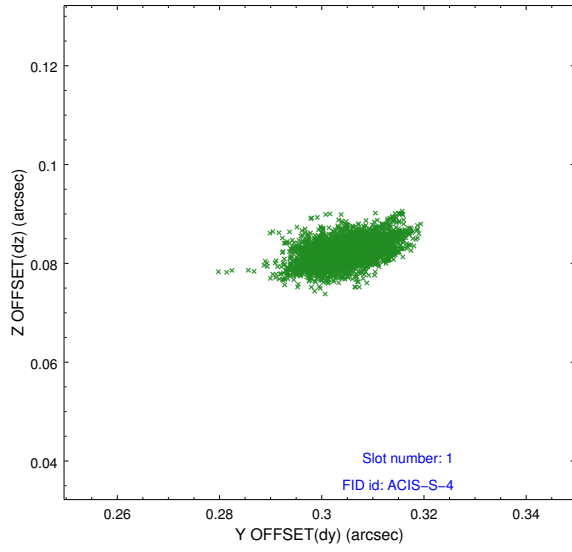


## 2.5 FID Slots

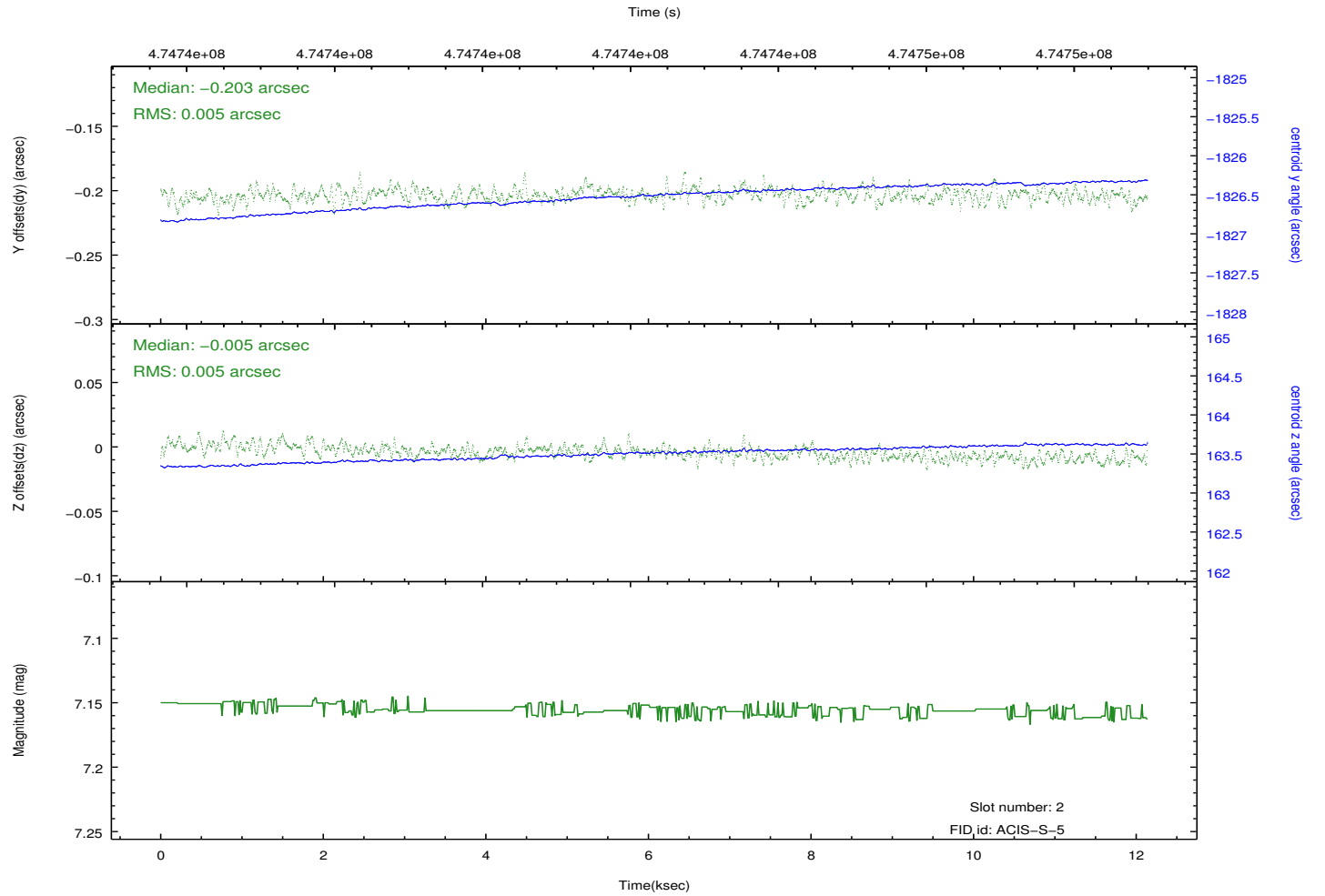
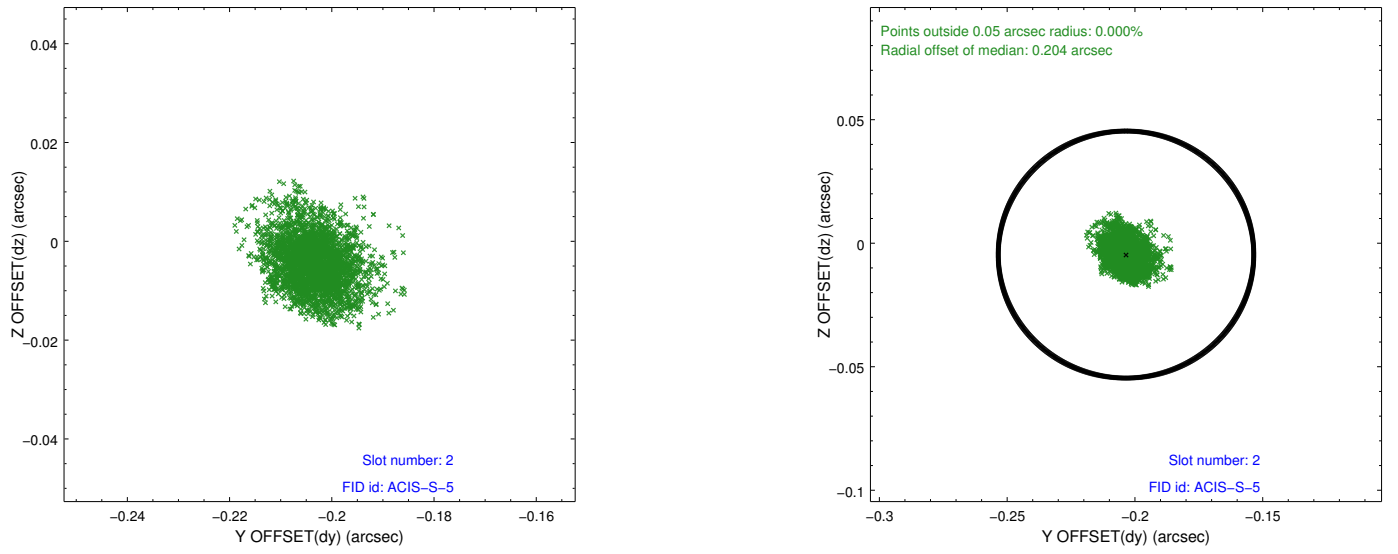
### 2.5.1 Slot 0



## 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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.074239342928

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.