

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 15044 - L2 Version 2  
Chandra X-Ray Center

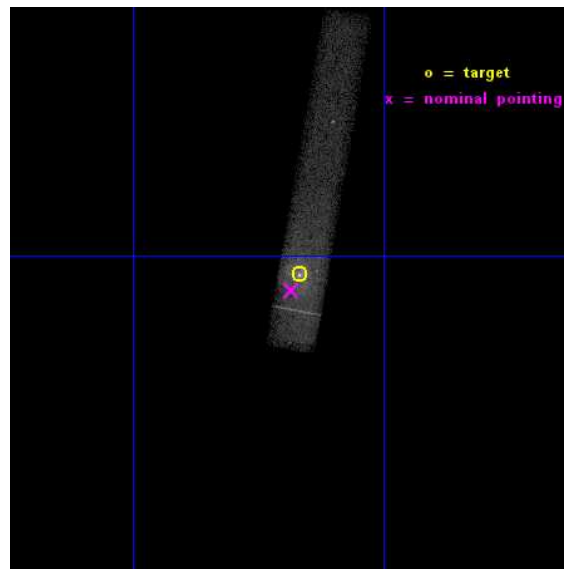
L2 Processing Date : Dec 6 2014

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# 1 Front

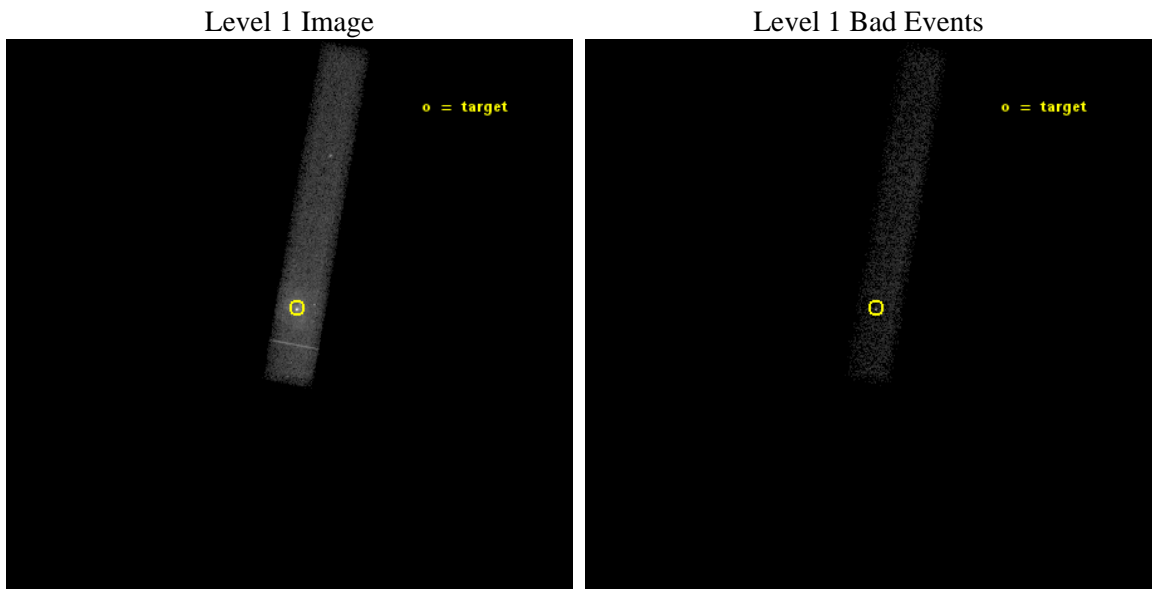
seq_num	702851	Sequence number
obs_id	15044	Observation id
title	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.00775	Observer's specified target Dec [deg]
ra_nom	266.42103111203	Nominal RA [deg]
dec_nom	-29.014647399004	Nominal Dec [deg]
roll_nom	280.15874602122	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47068.680197597	Sum of GTIs [s]
livetime	42688.808450568	Livetime [s]
ontime7	47068.680197597	Sum of GTIs [s]
l2events	61229	Number of level 2 events



## 2 OBI

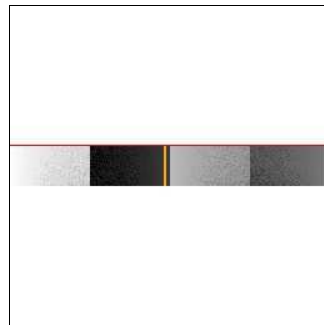
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	47000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	47068.680197597	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime7	47068.680197597	Sum of GTIs [s]
date	2014-12-06T23:55:48	Date and time of file creation	l1events	84196	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

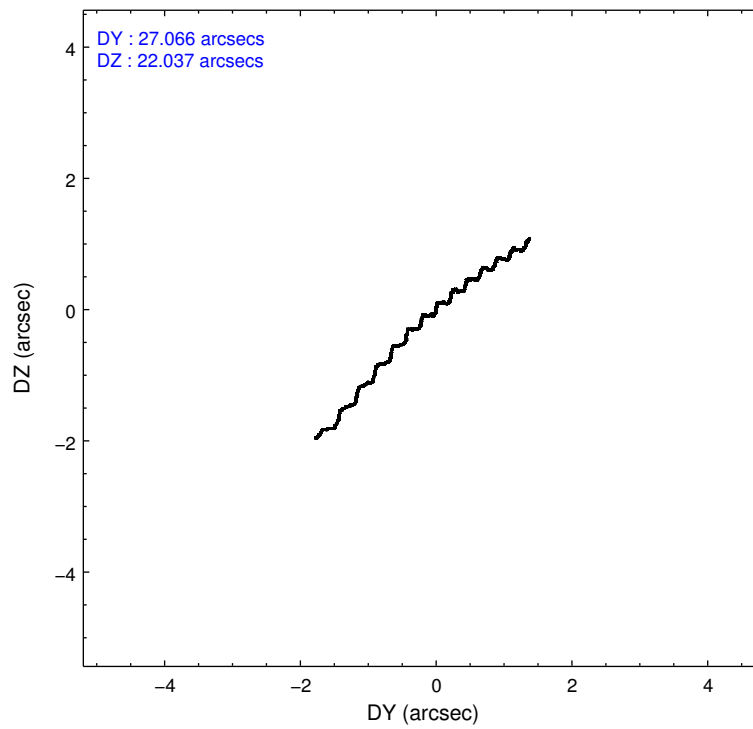
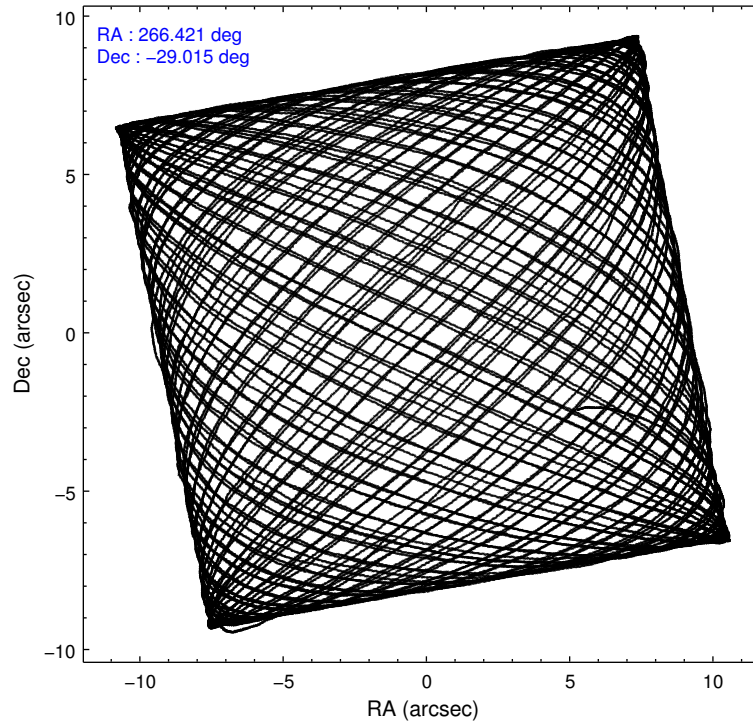
	<b>ccd 7</b>
level 1 events	84196
rejected events	21833
rejected %	25%

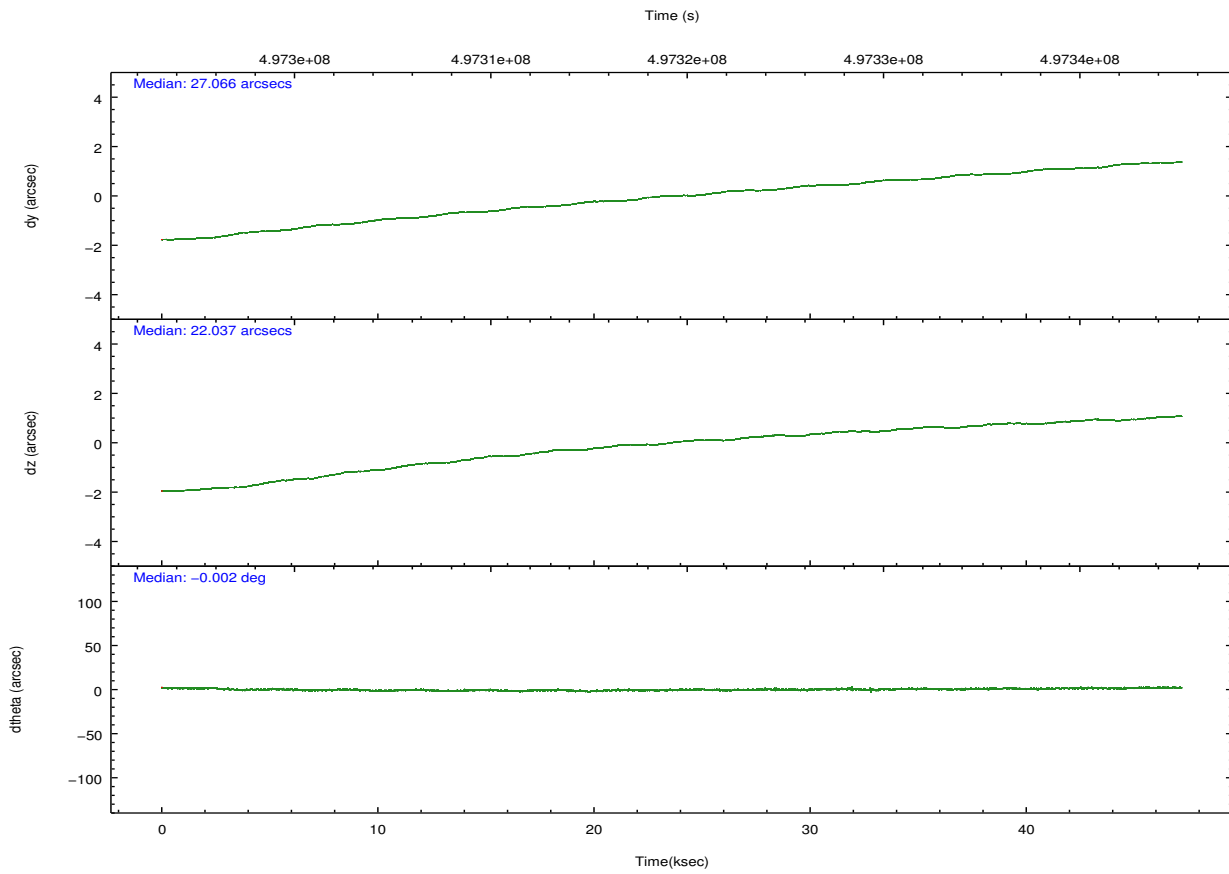
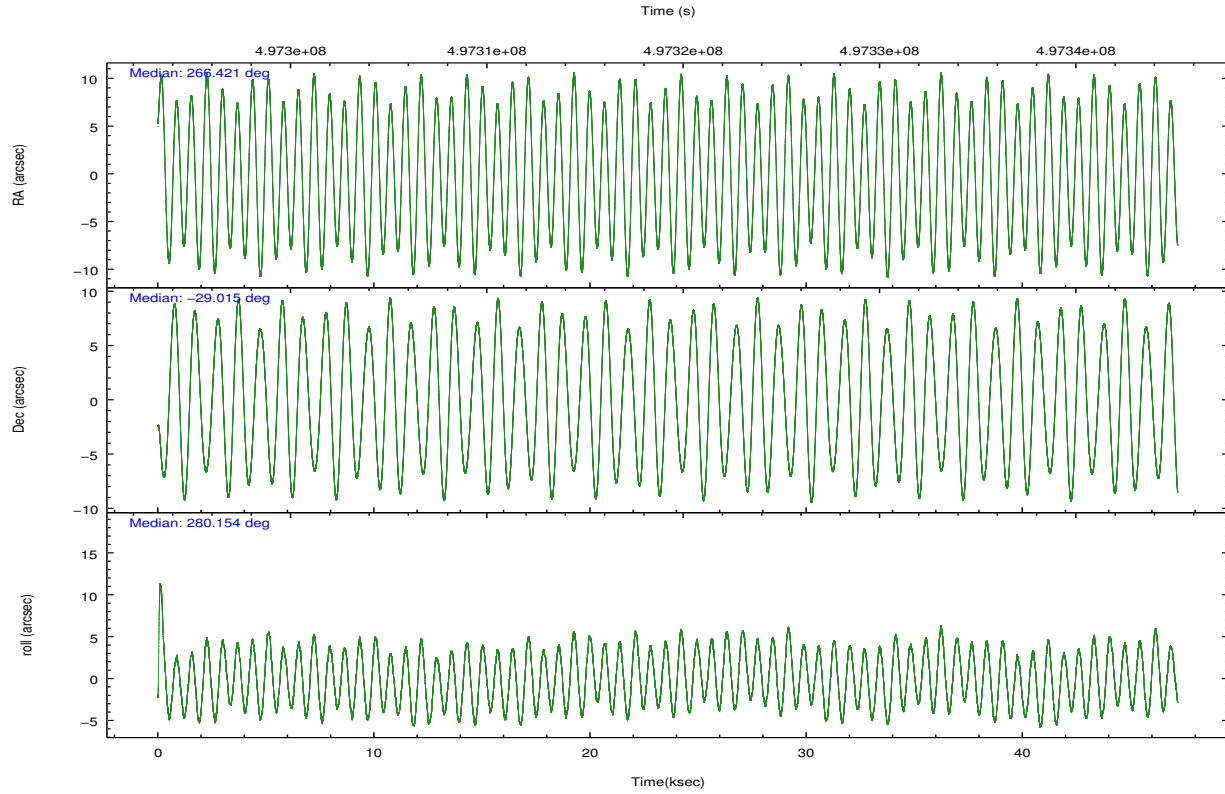
	<b>ccd 7</b>
grade 0 events	10264
	12%
grade 1 events	86
	0%
grade 2 events	14002
	16%
grade 3 events	7085
	8%
grade 4 events	7045
	8%
grade 5 events	4639
	5%
grade 6 events	23969
	28%
grade 7 events	17106
	20%

## 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	266.400539	266.421031112029	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.993994	-29.01464739900372	Subarray start row	449	449
[deg] Pointing Roll	279.992180	280.1587460212231	Subarray row count	128	128
[s] Window start time (MET)	496972867.184000	496972867.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	498182407.184000	498182407.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	497295808.184000	497294688.23853			
Observation start date	2013-10-04T17:42:21	2013-10-04T17:24:48			
[s] Observation end time (MET)	497342808.184000	497343663.7662			
Observation end date	2013-10-05T06:45:41	2013-10-05T07:01:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect





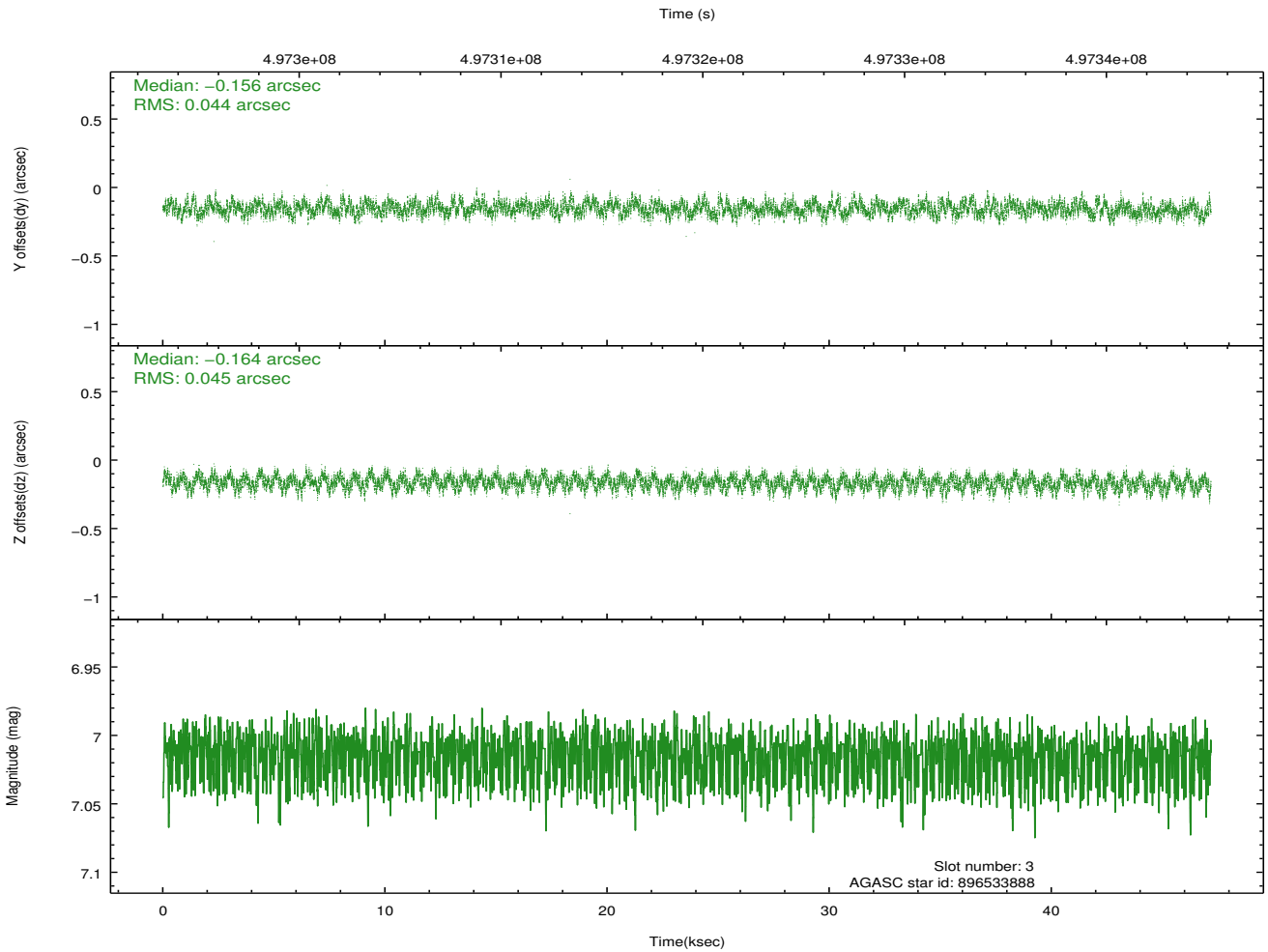
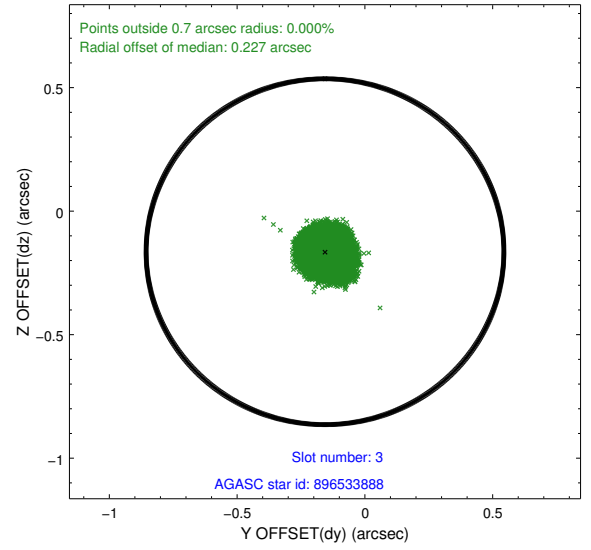
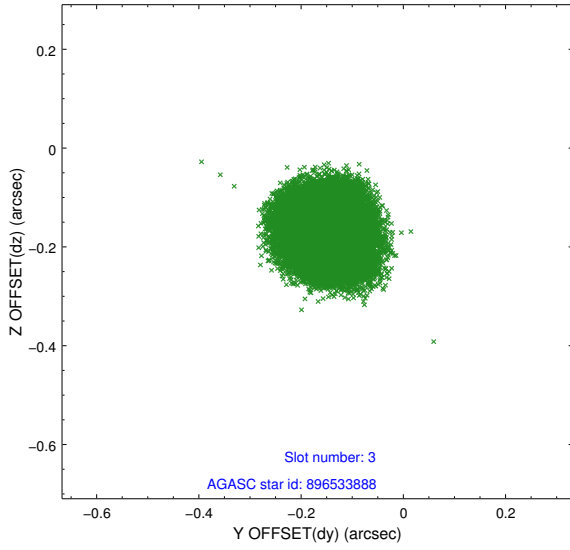
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.90	11508	-0.195	-0.120	0.021	0.043	0.000000	0.000000	-780.54	-1743.45
1	FID		ACIS-S-4	6.99	11507	0.239	0.103	0.023	0.041	0.000000	0.000000	2133.26	165.16
2	FID		ACIS-S-6	7.12	11509	-0.074	0.028	0.018	0.035	0.000000	0.000000	381.65	802.53
3	GUIDE	used	896533888	7.02	23016	-0.156	-0.164	0.068	0.105	266.666434	-29.392757	1559.65	572.09
4	GUIDE	used	896534664	8.19	23010	0.522	0.052	0.081	0.132	266.405570	-28.407461	-2075.74	382.01
5	GUIDE	used	896541360	7.74	23016	-0.114	-0.138	0.078	0.120	266.684478	-29.453744	1785.67	589.26
6	GUIDE	used	896541576	8.19	23013	-0.246	0.066	0.076	0.121	267.051055	-28.762912	-457.45	2165.21
7	GUIDE	used	896540808	7.49	23014	-0.005	0.185	0.062	0.101	265.985401	-29.308604	892.09	-1480.00

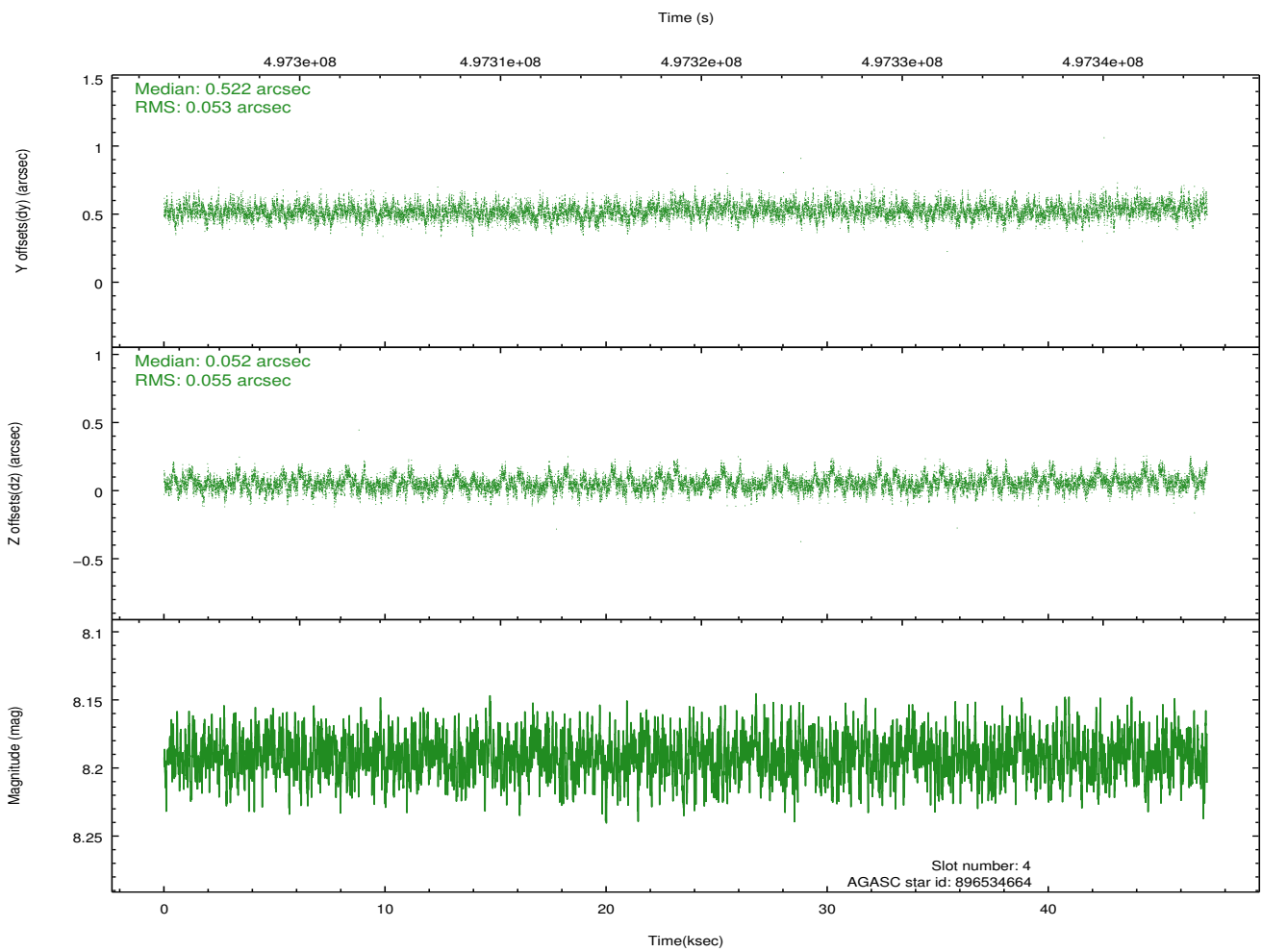
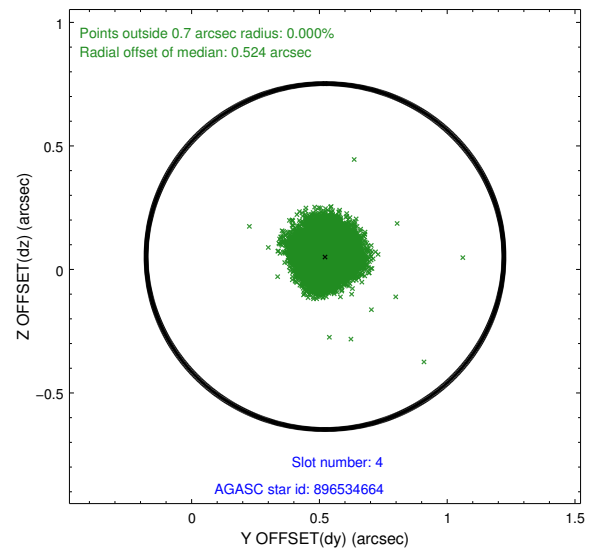
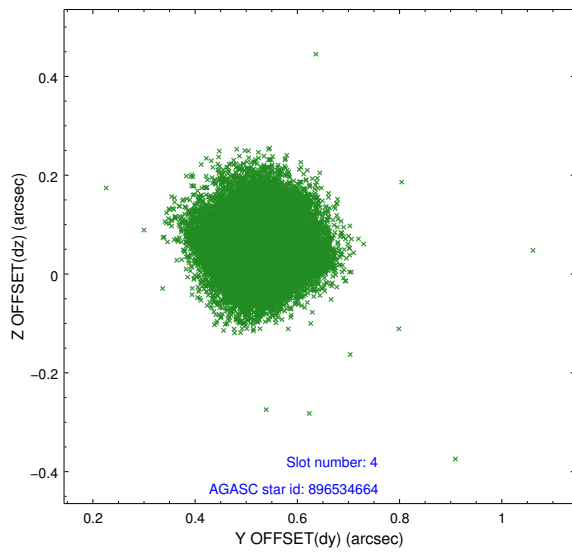
∞

## 2.4 Star Slots

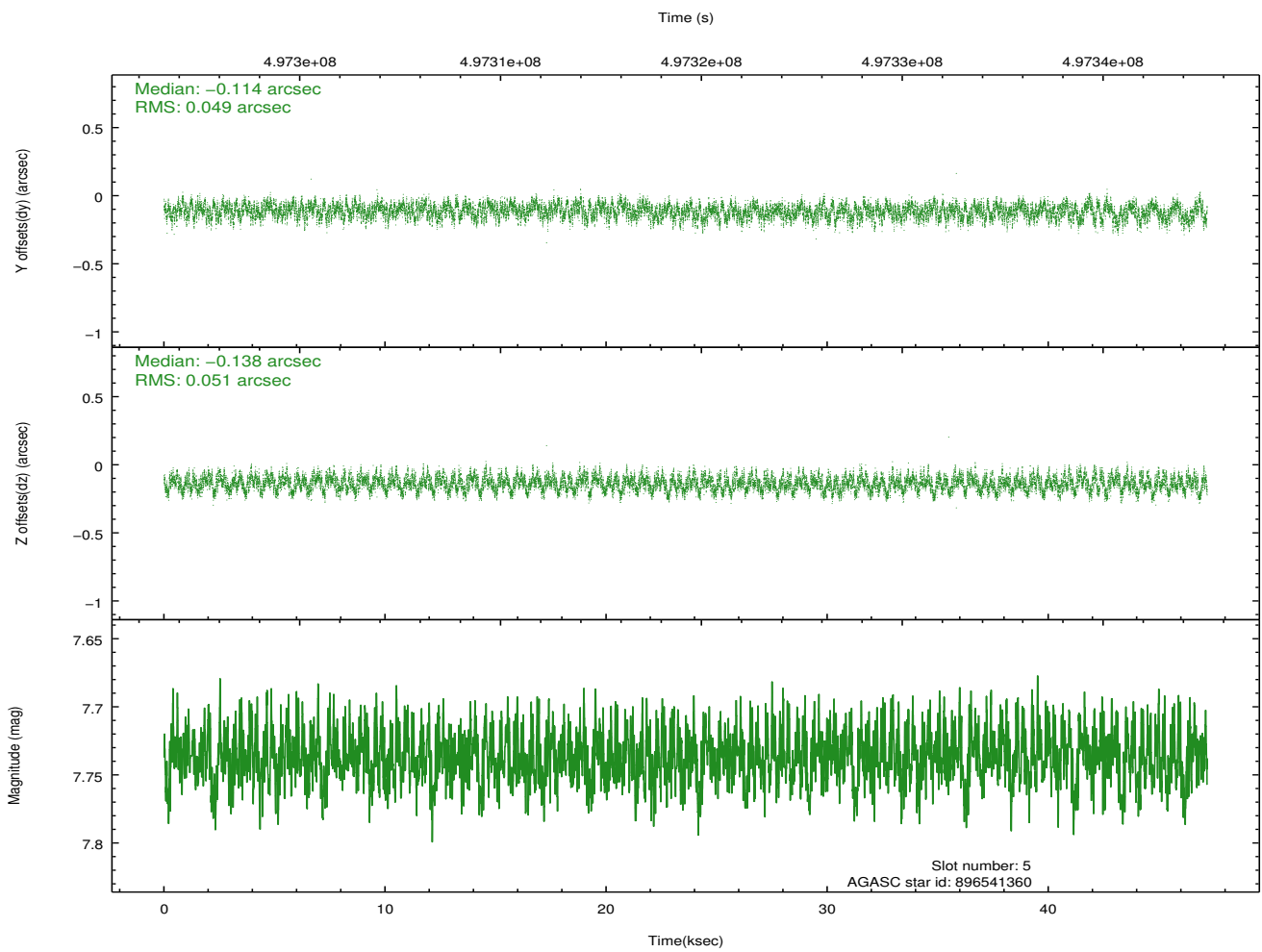
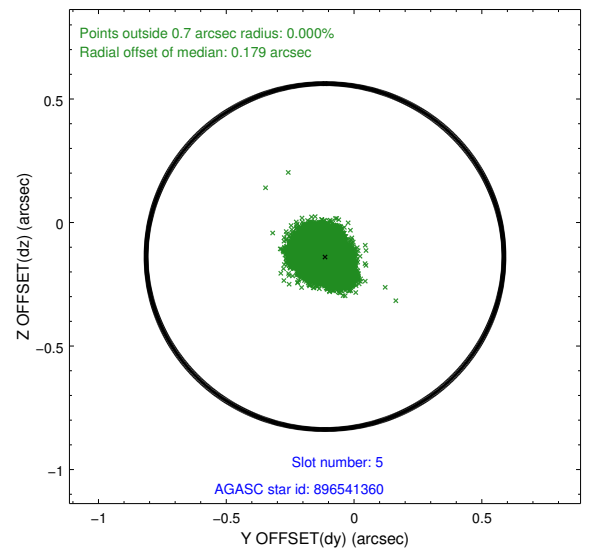
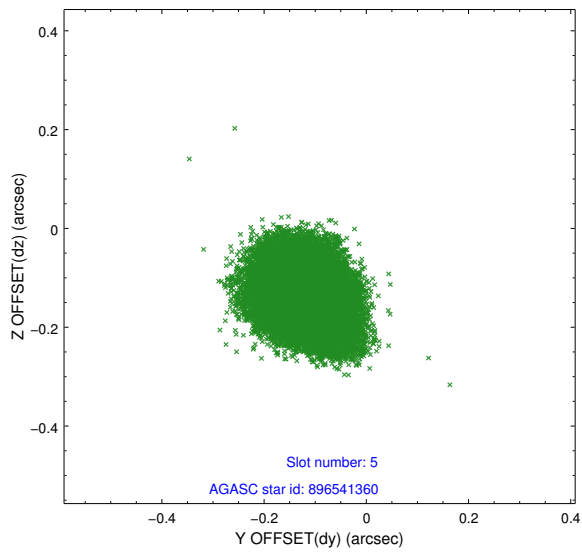
### 2.4.1 Slot 3



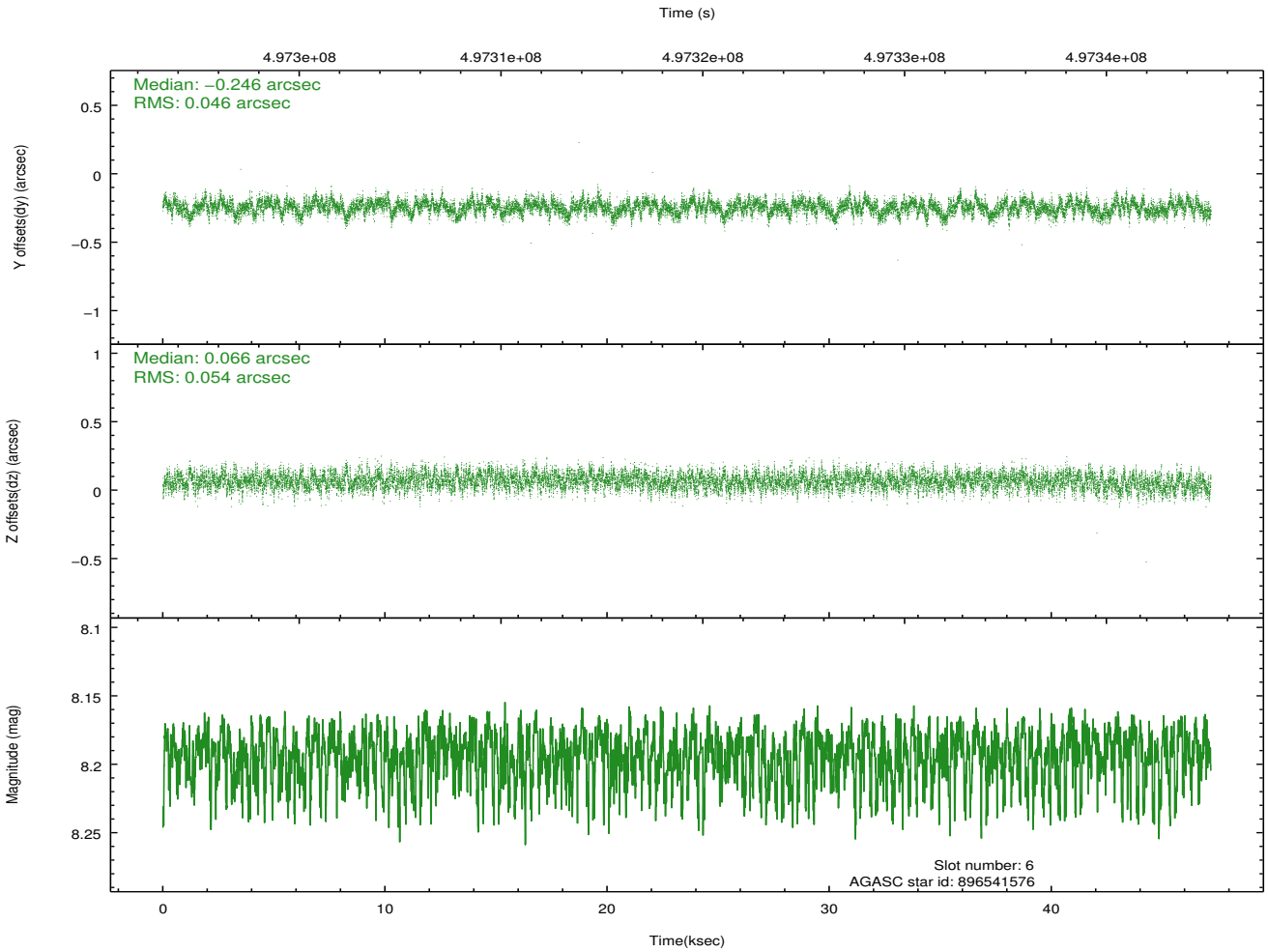
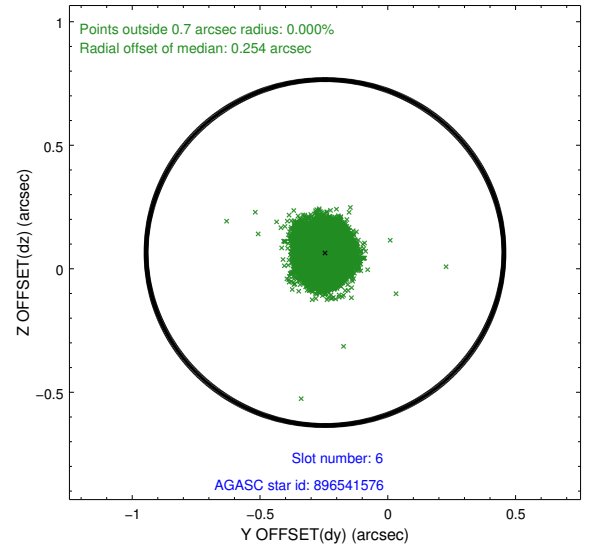
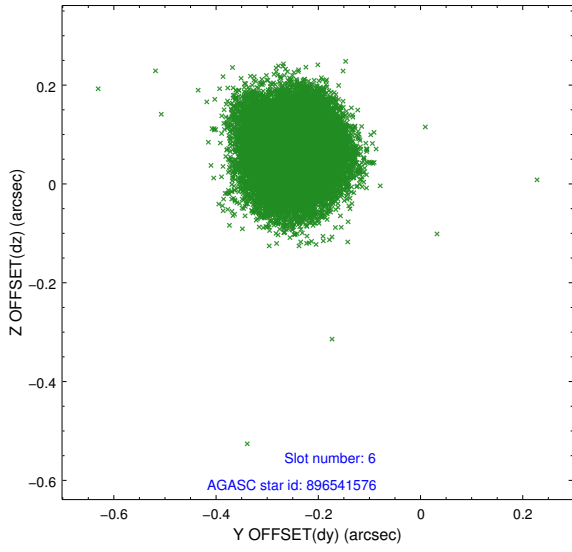
## 2.4.2 Slot 4



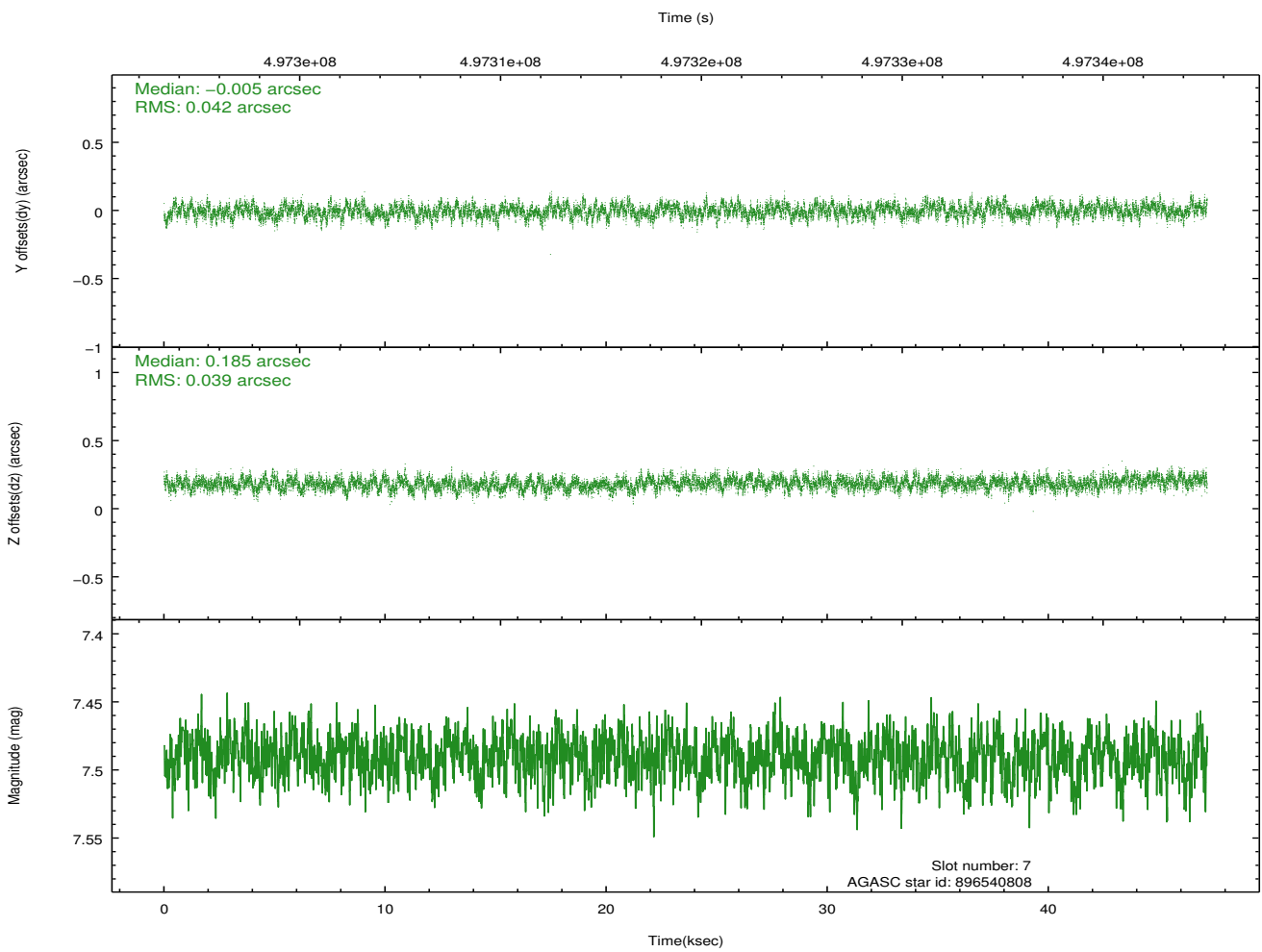
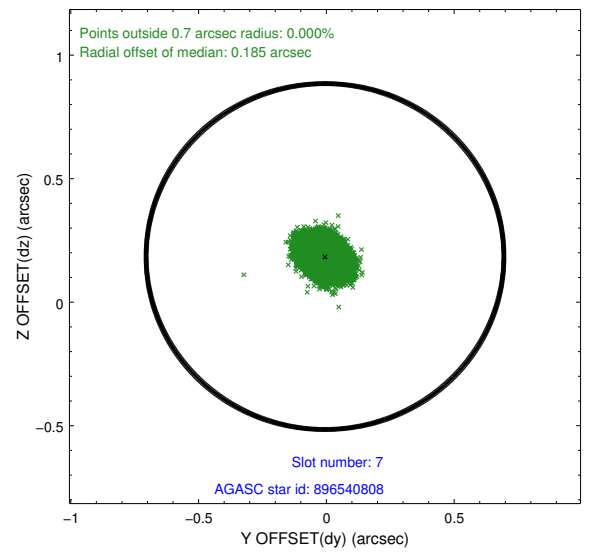
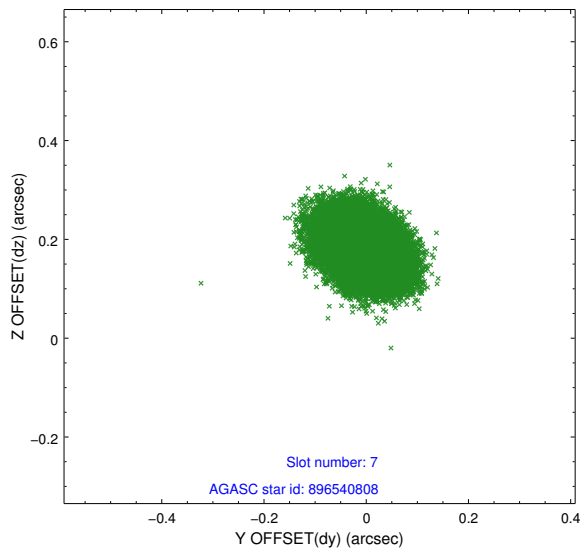
### 2.4.3 Slot 5



### 2.4.4 Slot 6

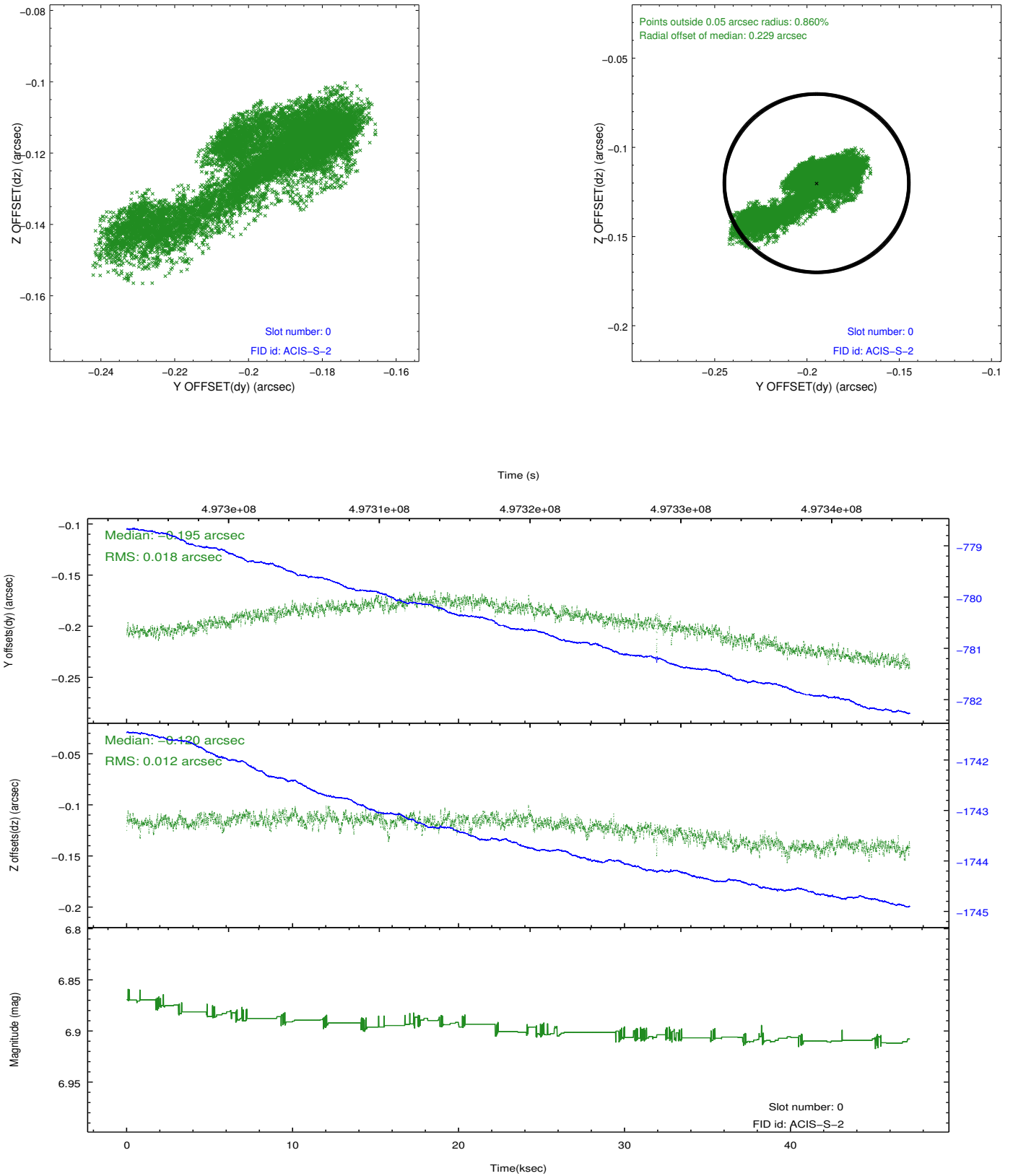


## 2.4.5 Slot 7

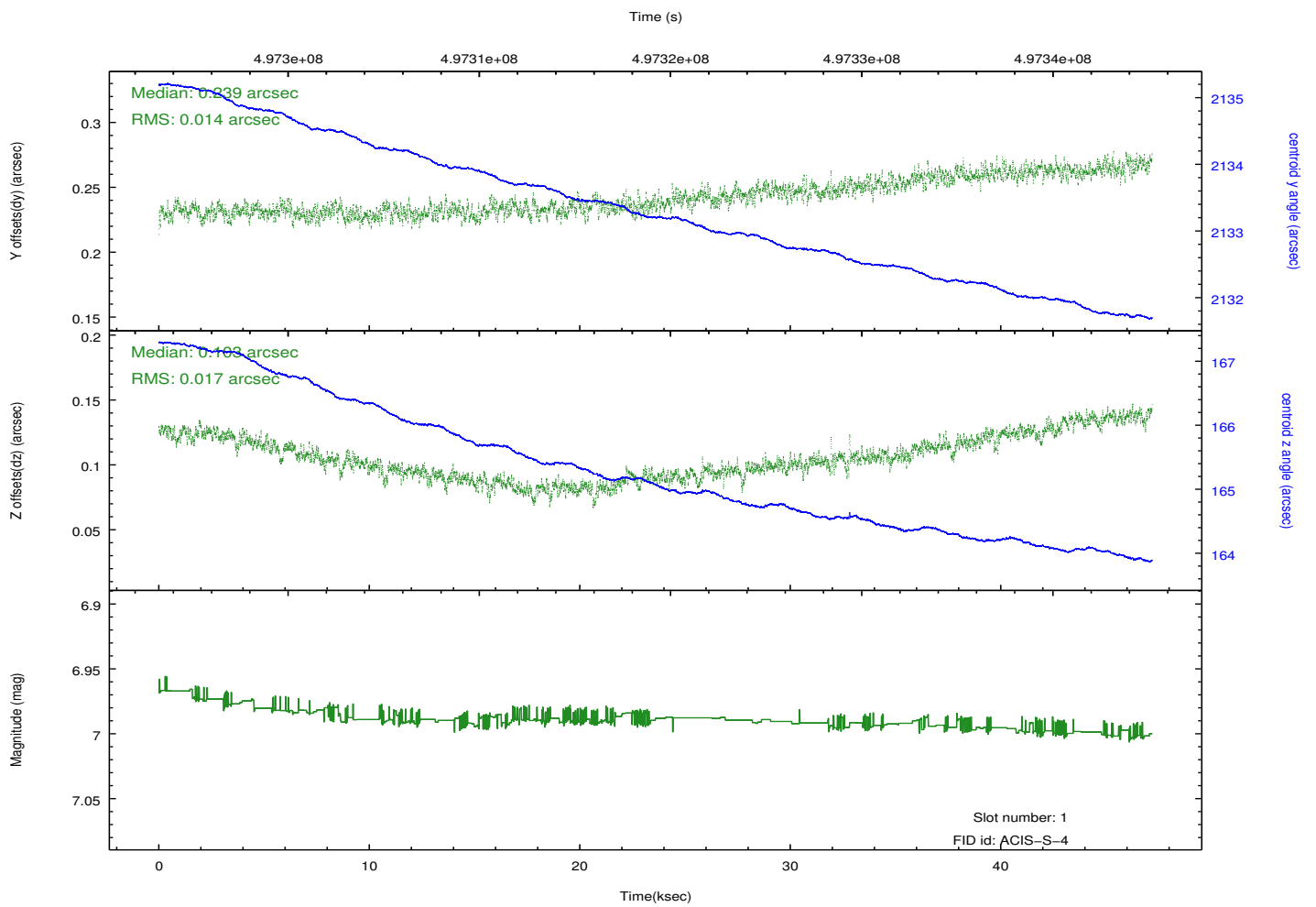
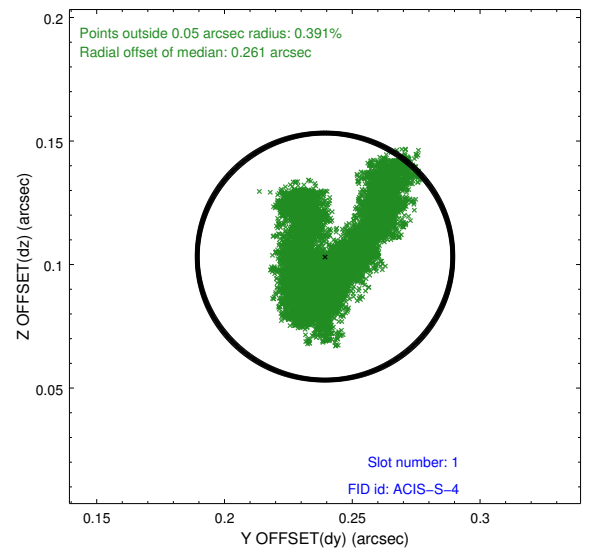
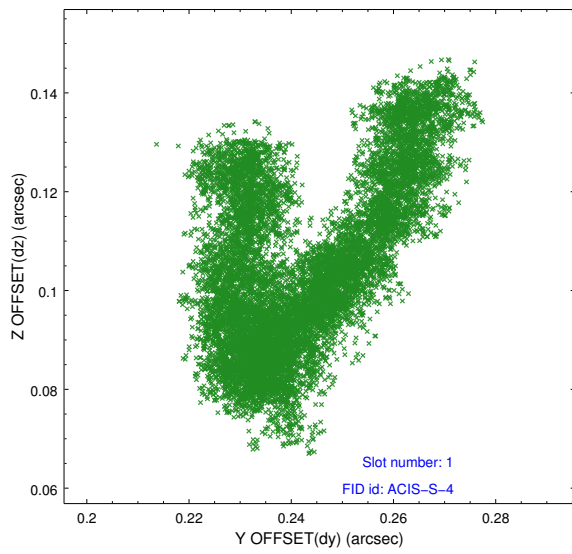


## 2.5 FID Slots

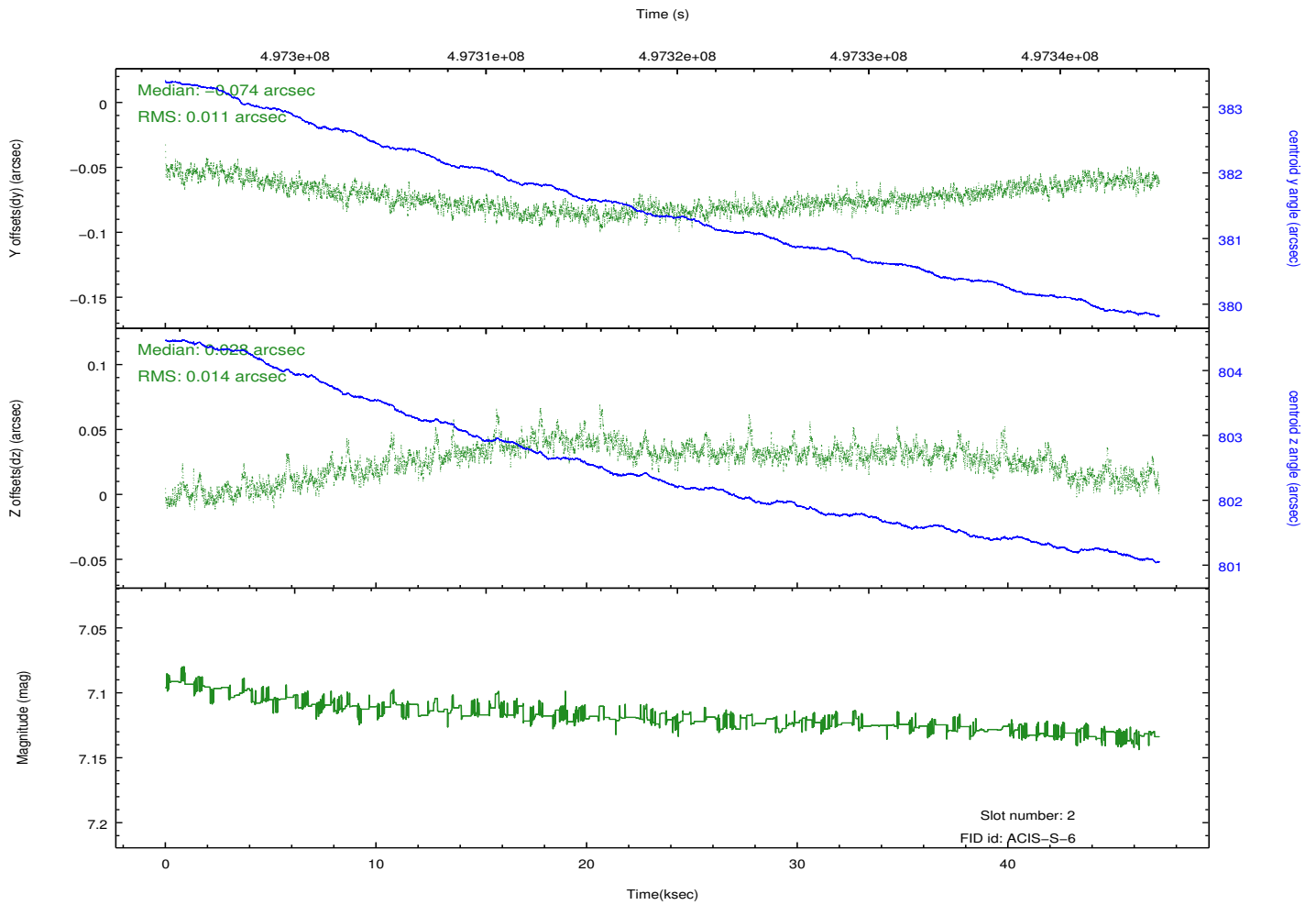
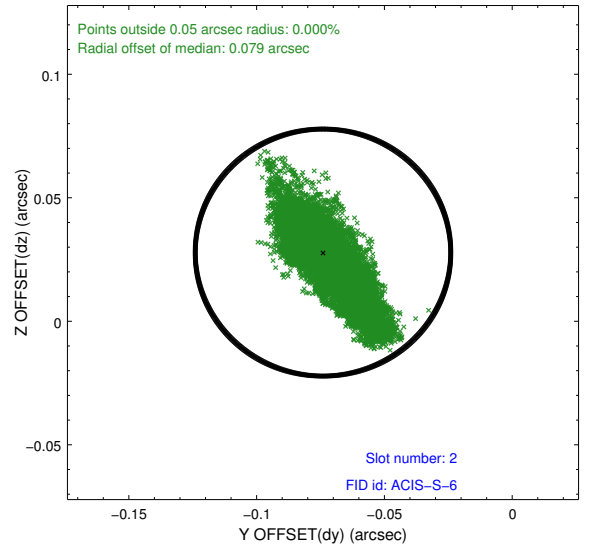
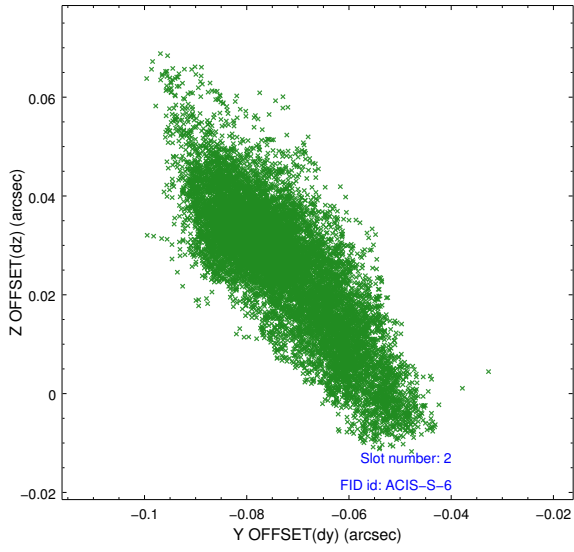
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.068680197597

## A.2 Comments

Joint proposal with XMM and NRAO.

Window preference met.

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.