

# V&V Reference Report

## L2 ASCDS Version : 10.0.1

Observation 16322 - L2 Version 2  
Chandra X-Ray Center

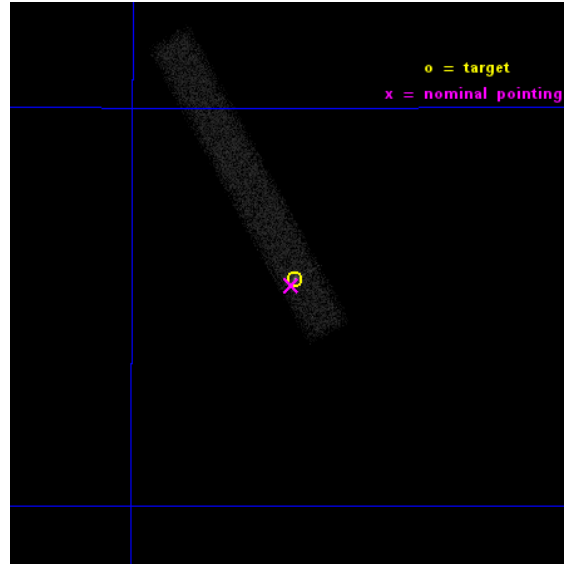
L2 Processing Date : Dec 6 2014

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# 1 Front

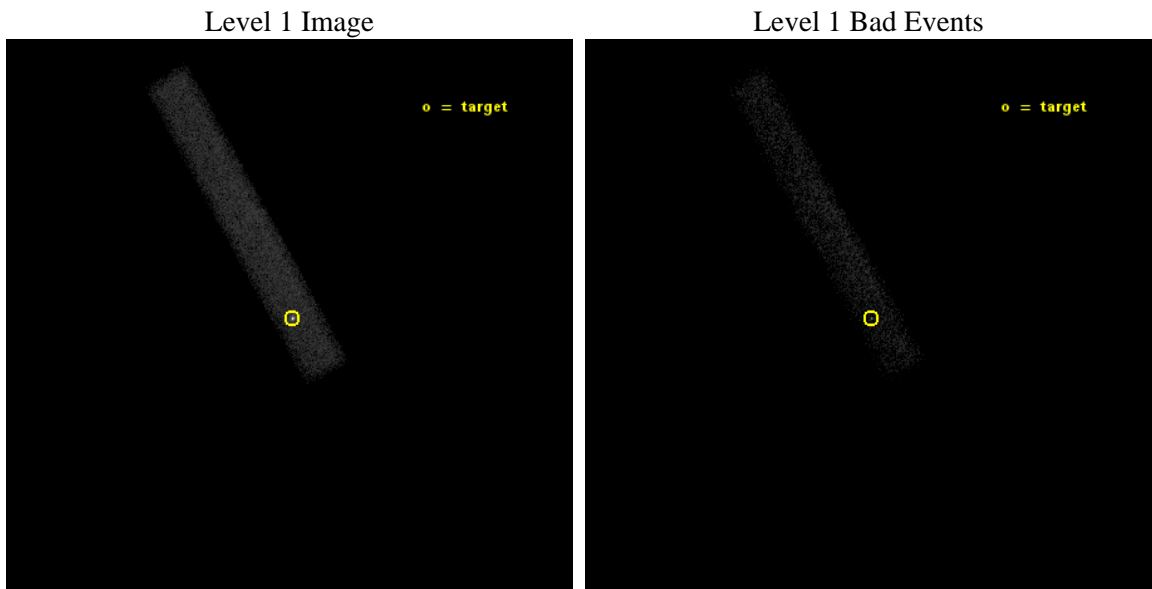
seq_num	702845	Sequence number
obs_id	16322	Observation id
title	Probing The Causes of the High/Low Jet Power Dichotomy in AGN Jets with Chandra and HST	Proposal title
observer	Dr Preeti Kharb	Principal investigator
object	1849+670	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.317083	Observer's specified target RA [deg]
dec_targ	67.095	Observer's specified target Dec [deg]
ra_nom	282.32072222775	Nominal RA [deg]
dec_nom	67.092326279501	Nominal Dec [deg]
roll_nom	240.35329070947	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45980.895995677	Sum of GTIs [s]
livetime	41702.245597385	Livetime [s]
ontime7	45980.895995677	Sum of GTIs [s]
l2events	31075	Number of level 2 events



## 2 OBI

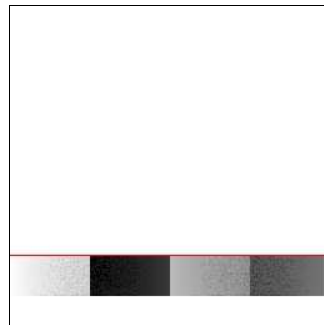
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	45910.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	45980.895995677	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime7	45980.895995677	Sum of GTIs [s]
date	2014-12-06T10:41:43	Date and time of file creation	l1events	50844	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

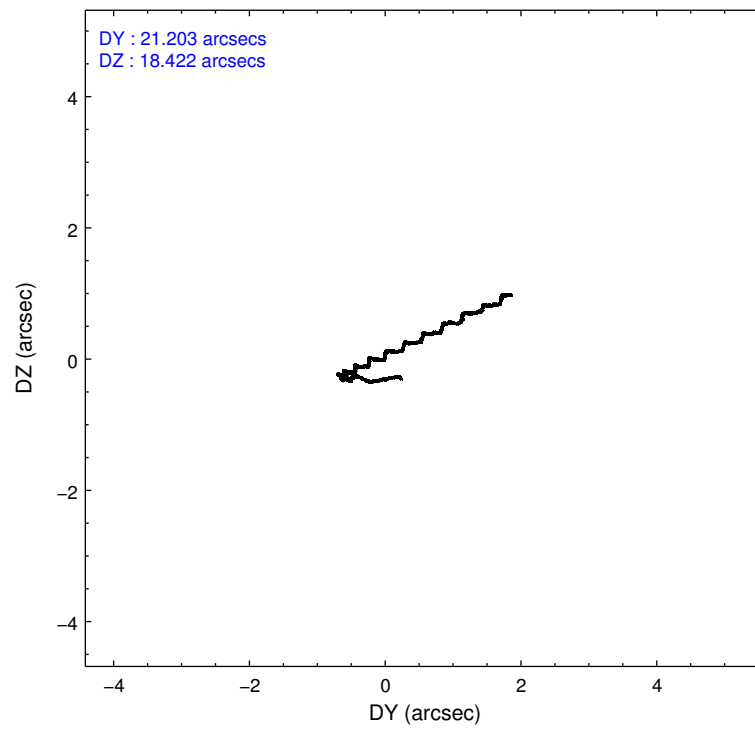
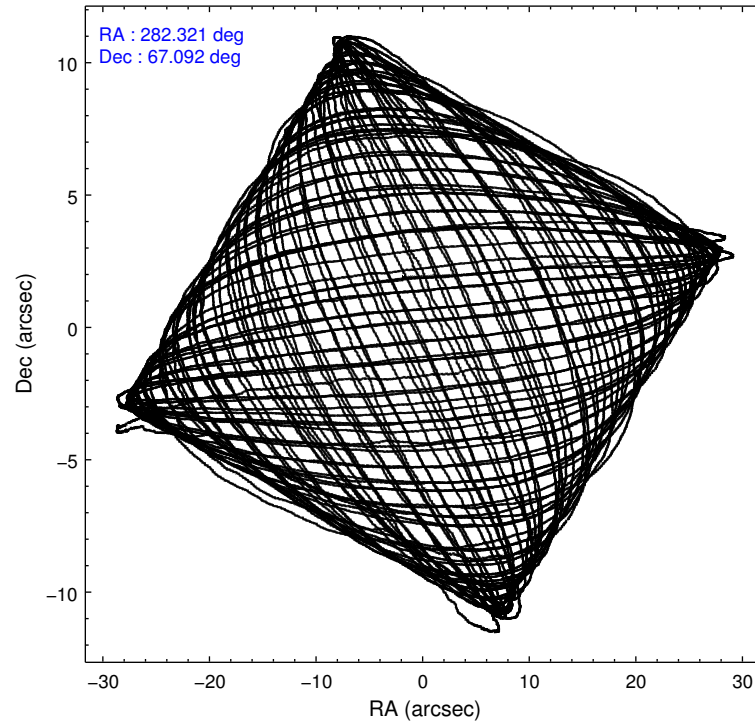
	<b>ccd 7</b>
level 1 events	50844
rejected events	19218
rejected %	<b>37%</b>

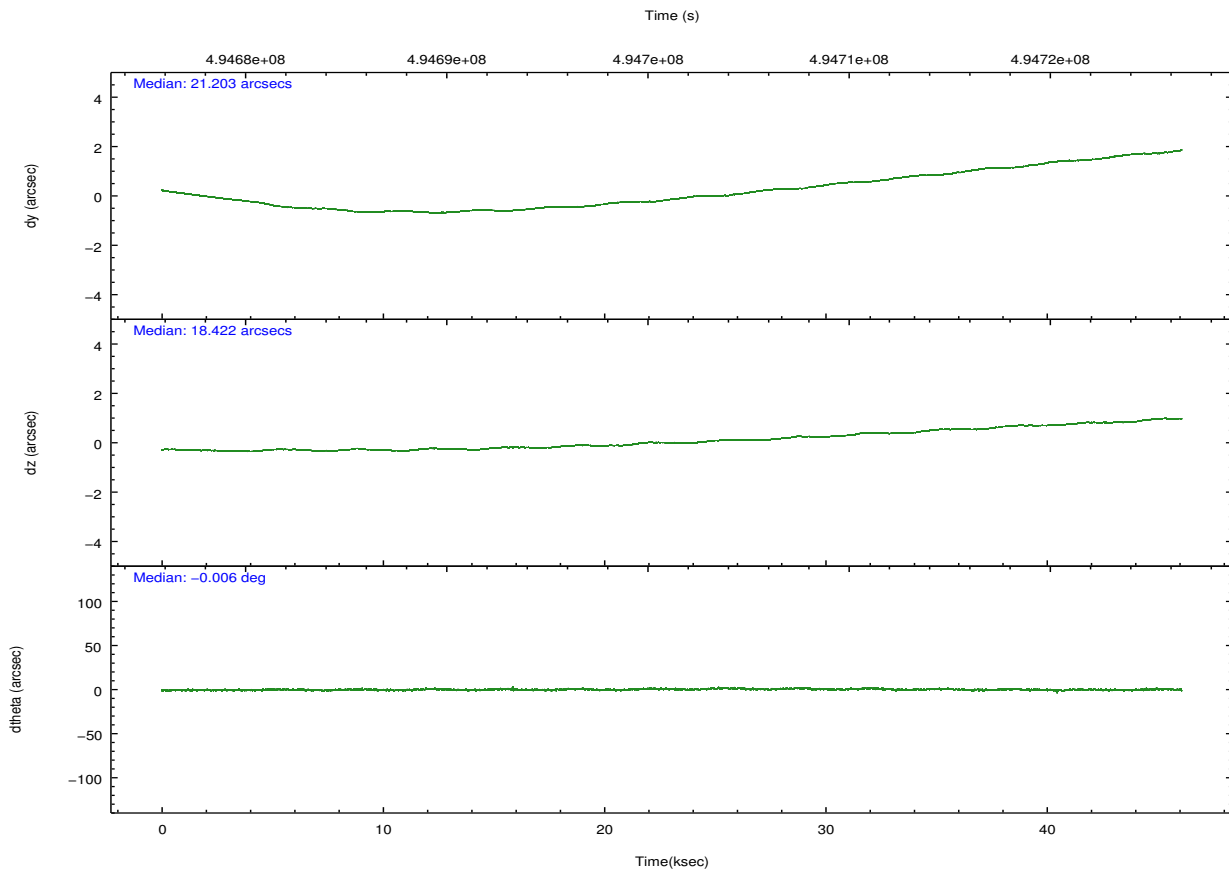
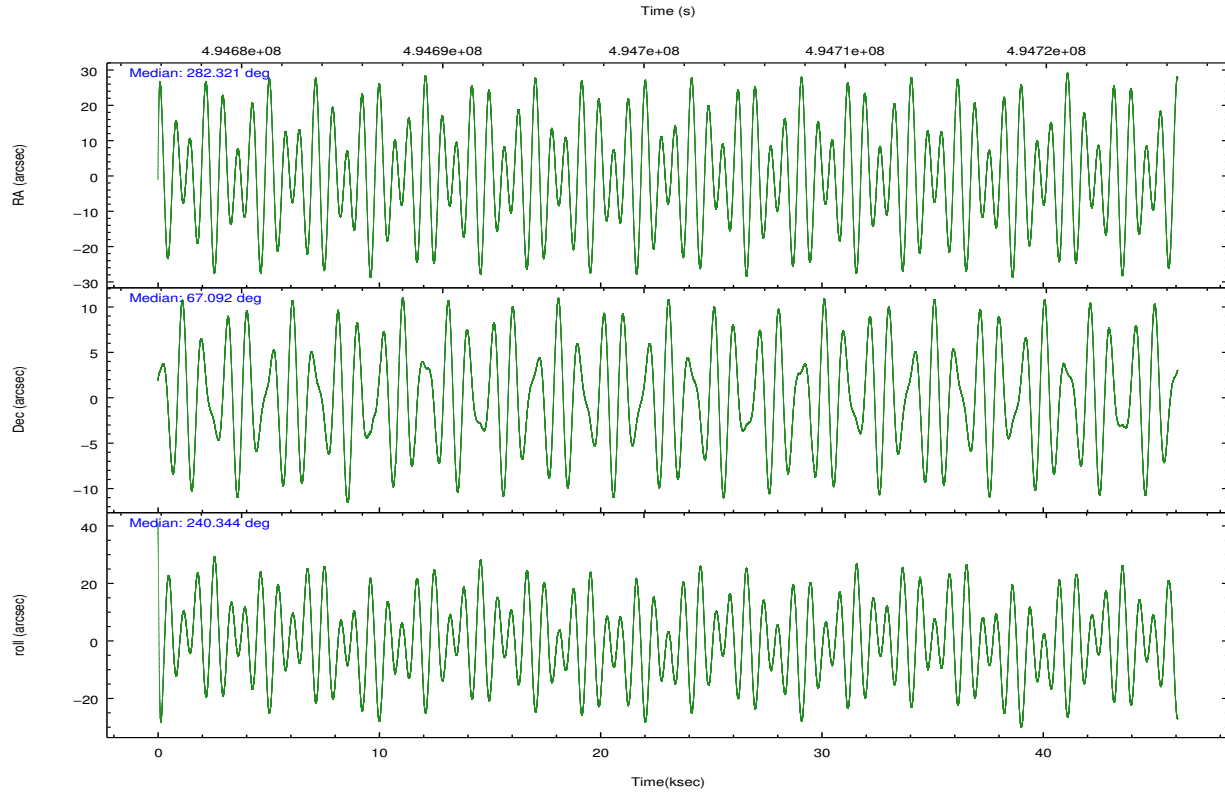
	<b>ccd 7</b>
grade 0 events	4699
	9%
grade 1 events	71
	0%
grade 2 events	7149
	14%
grade 3 events	3837
	7%
grade 4 events	3650
	7%
grade 5 events	3870
	7%
grade 6 events	12293
	24%
grade 7 events	15275
	30%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	282.319327	282.3207222277453	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	67.119656	67.09232627950064	Subarray start row	100	100
[deg] Pointing Roll	240.197939	240.3532907094722	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-181.422523	-181.4304778452681			
[mm] SIM translation stage offset	-8.710000000000001	-8.702044737739755			
[s] Observation start time (MET)	494678308.184000	494677311.64558			
Observation start date	2013-09-04T10:37:21	2013-09-04T10:21:51			
[s] Observation end time (MET)	494724218.184000	494724855.24816			
Observation end date	2013-09-04T23:22:31	2013-09-04T23:34:15			
Read mode	TIMED	TIMED			

## 2.3 Aspect





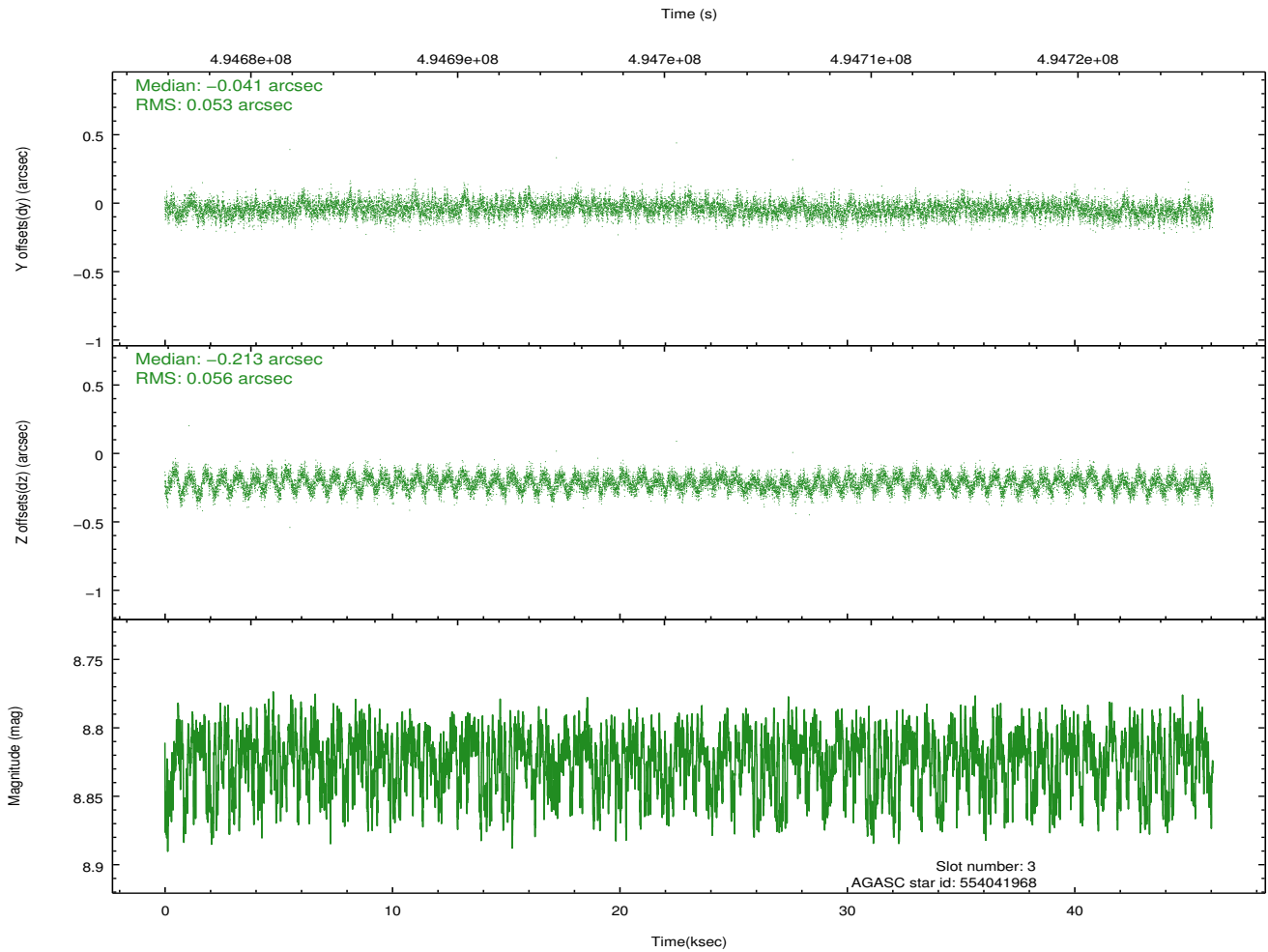
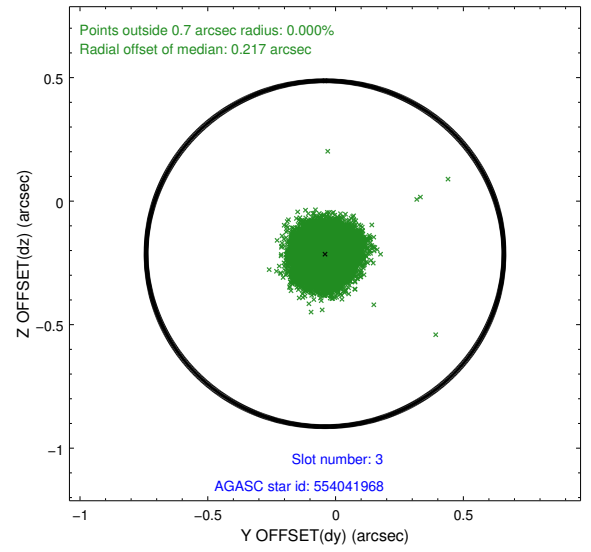
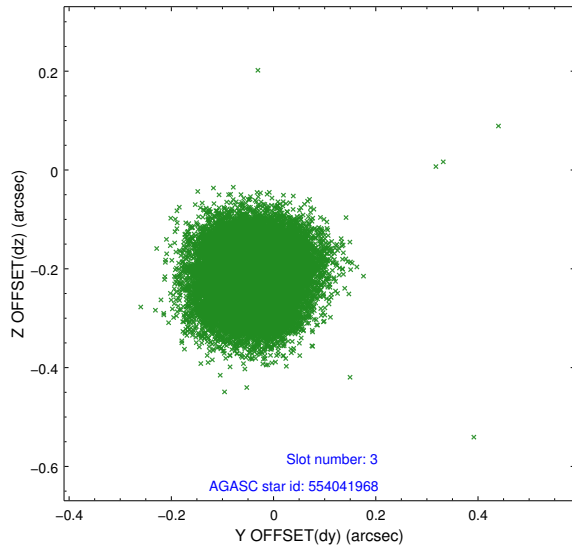
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.01	11239	0.124	0.227	0.021	0.042	0.000000	0.000000	922.24	-1914.66
1	FID		ACIS-S-2	6.92	11240	-0.265	-0.175	0.025	0.048	0.000000	0.000000	-774.06	-1919.62
2	FID		ACIS-S-6	7.22	11240	0.119	-0.048	0.014	0.026	0.000000	0.000000	387.88	626.38
3	GUIDE	used	554041968	8.82	22473	-0.041	-0.213	0.083	0.130	281.995803	66.548653	2013.07	618.19
4	GUIDE	used	554045016	9.15	22447	0.143	0.336	0.097	0.157	280.699933	67.308640	502.75	-2303.24
5	GUIDE	used	554174712	7.98	22476	-0.142	-0.215	0.082	0.138	283.497013	67.121056	-837.17	1419.84
6	GUIDE	used	580651008	7.61	22480	0.085	0.236	0.113	0.171	281.691037	67.771483	-1614.13	-1910.61
7	GUIDE	used	554047072	9.23	22272	-0.050	-0.138	0.111	0.184	282.594805	66.308861	2334.58	1796.74

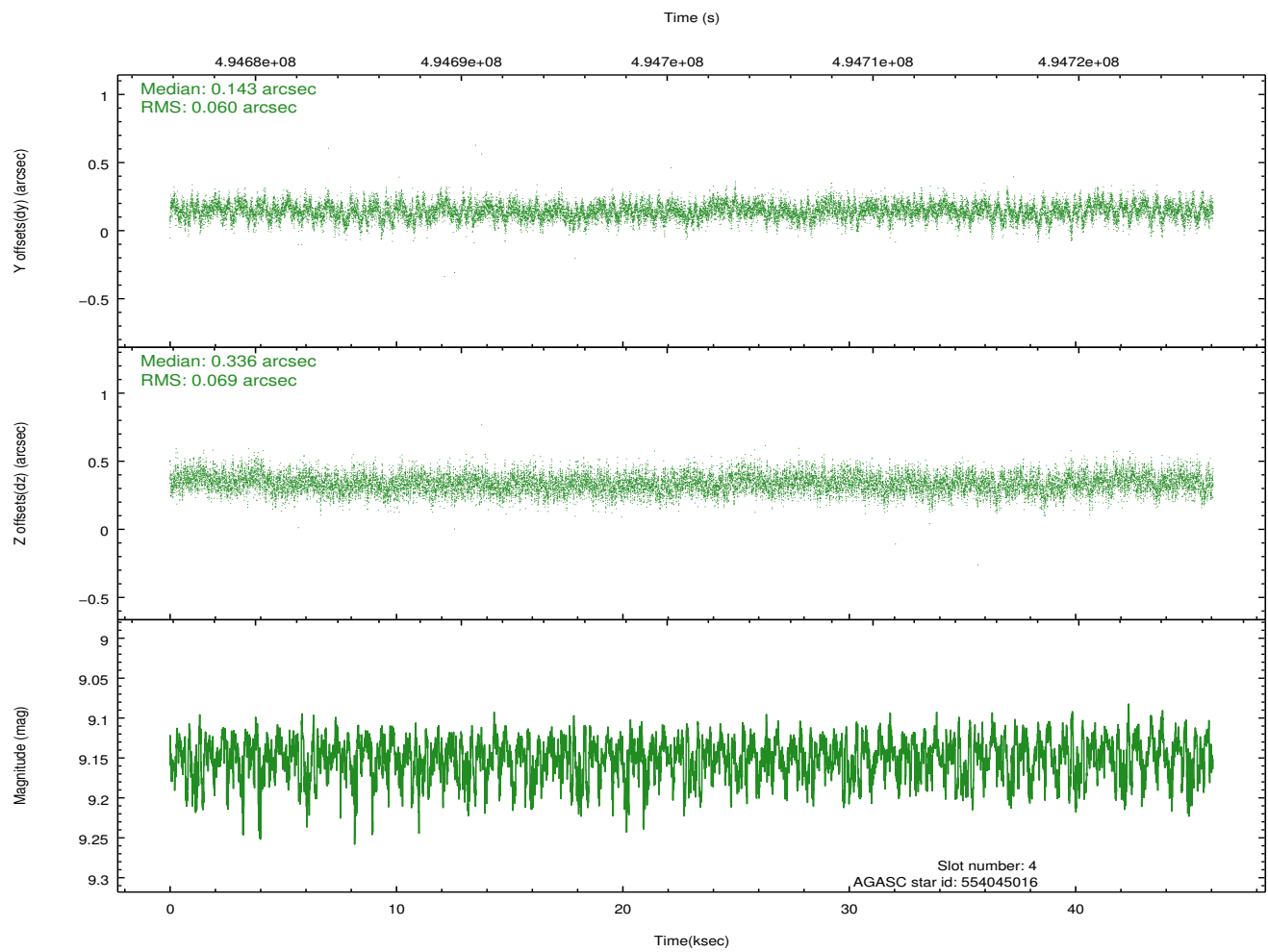
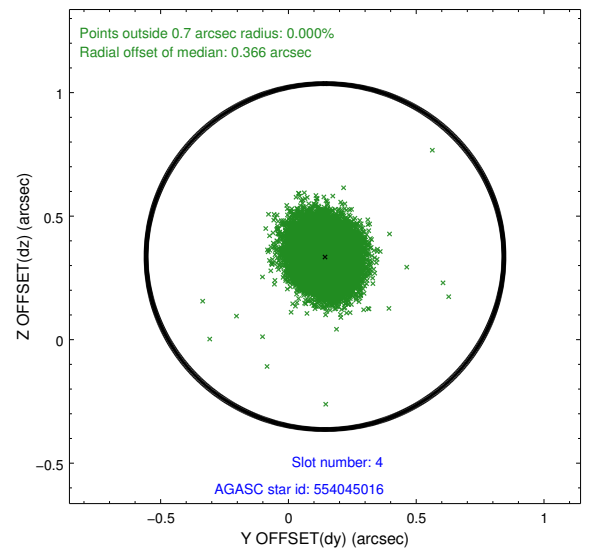
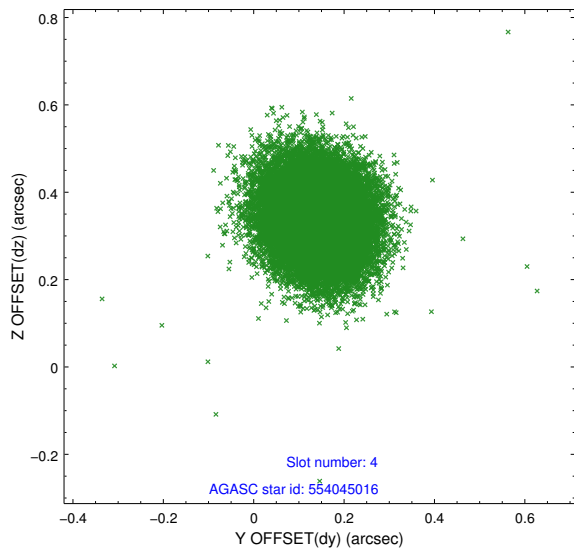
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## 2.4 Star Slots

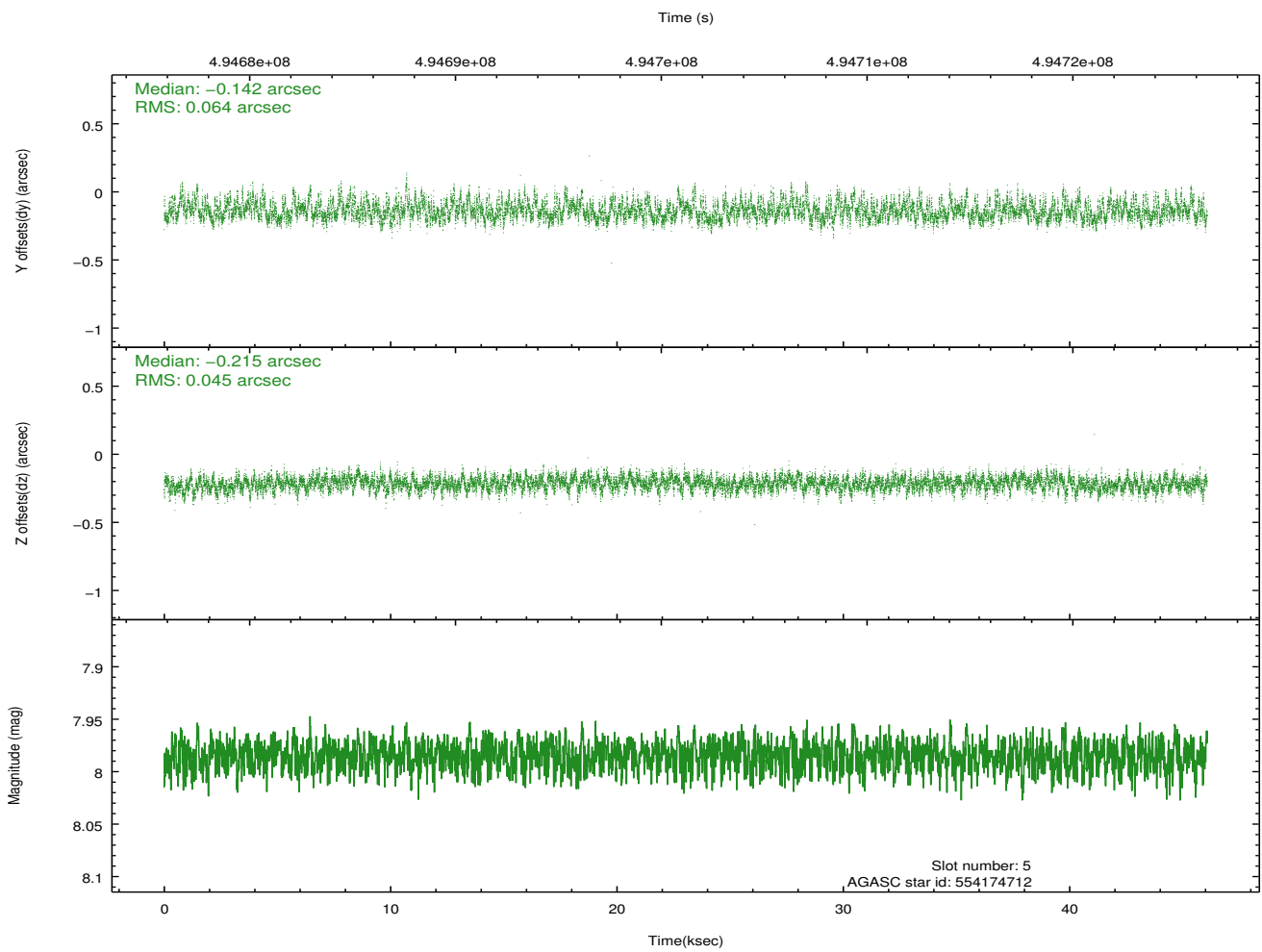
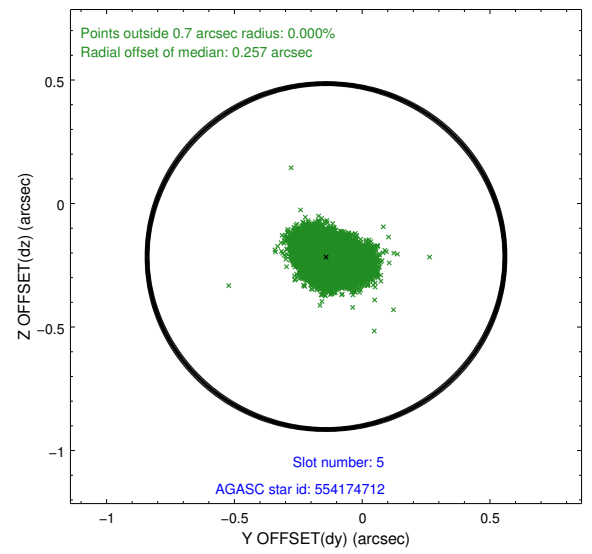
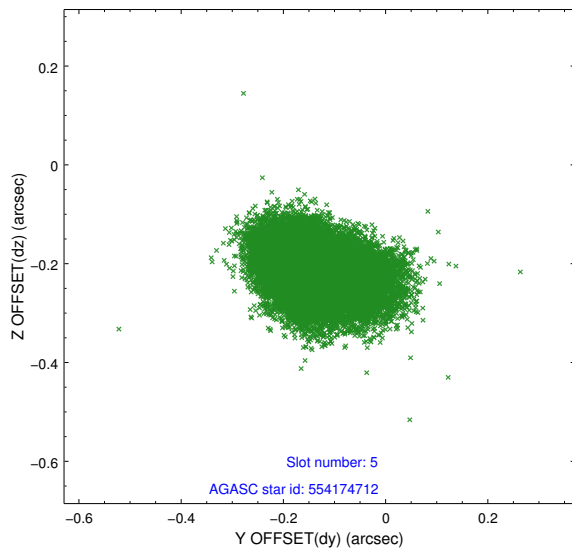
### 2.4.1 Slot 3



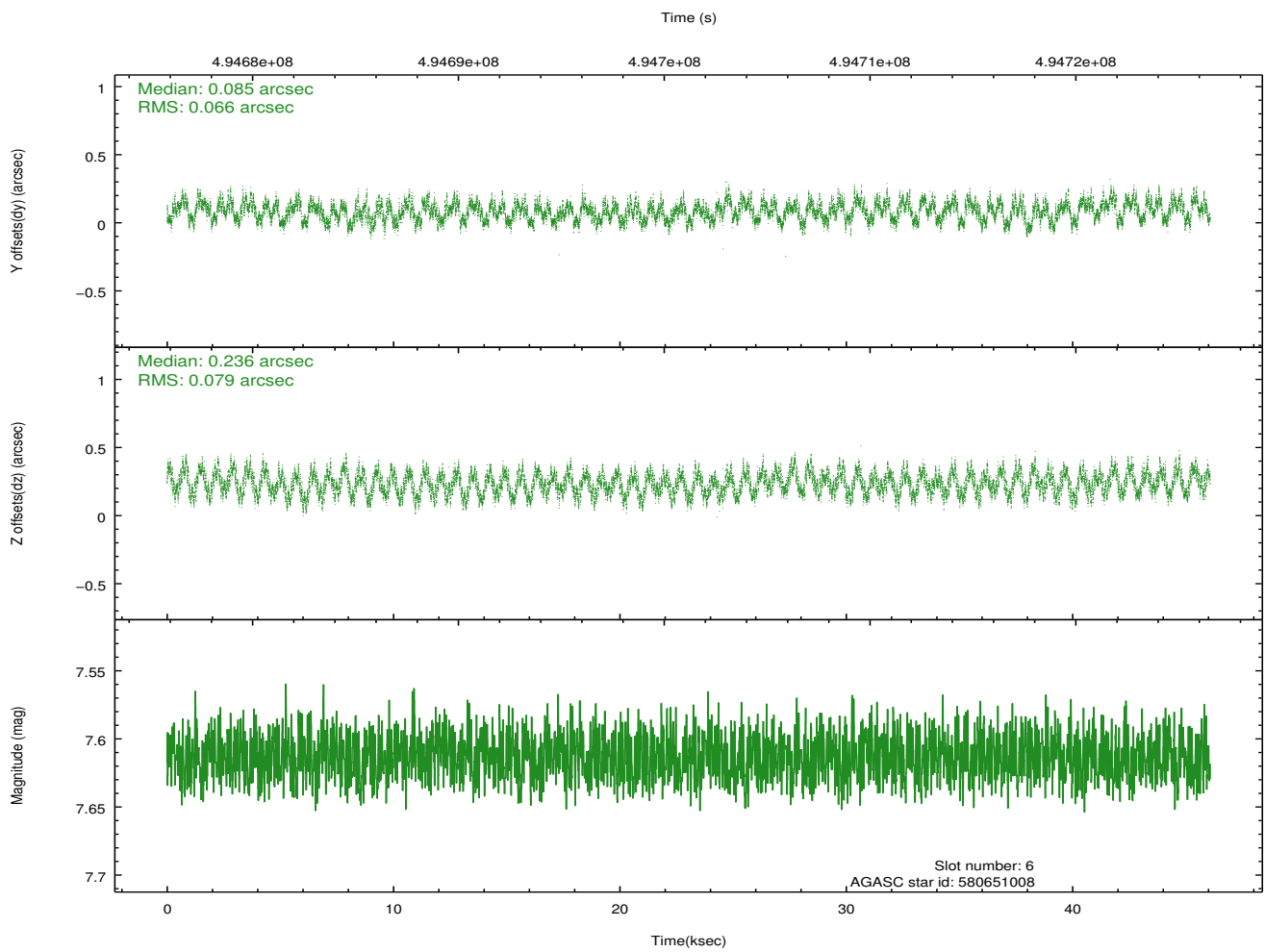
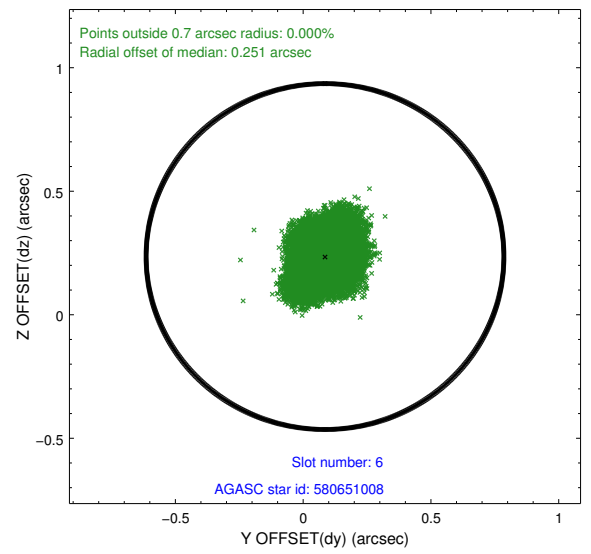
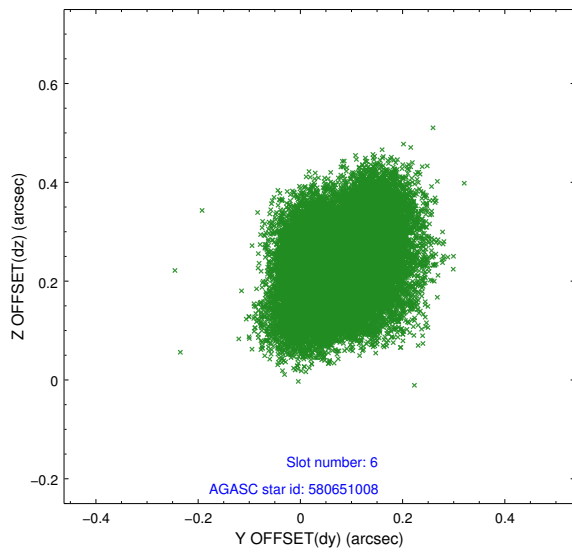
## 2.4.2 Slot 4



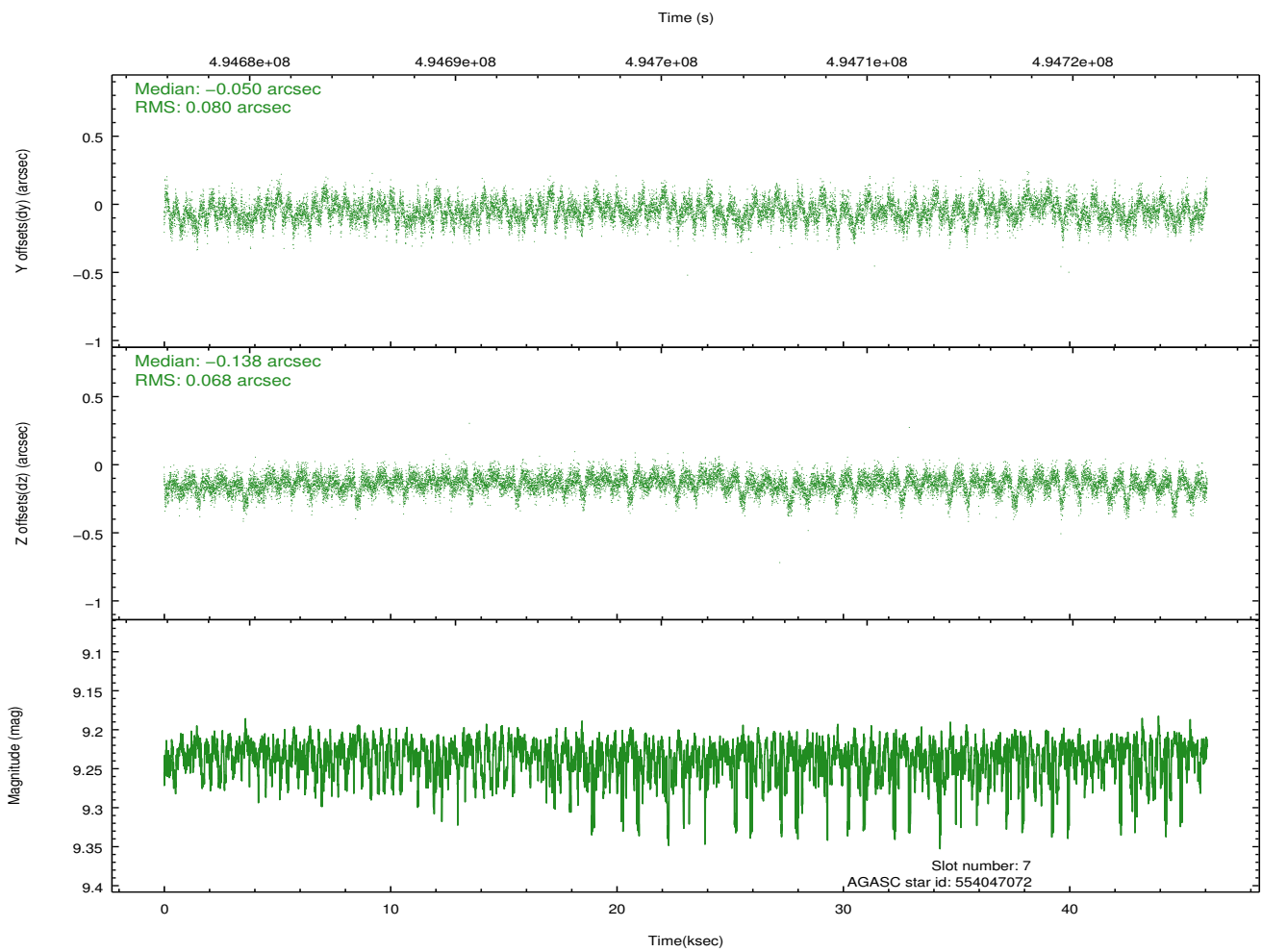
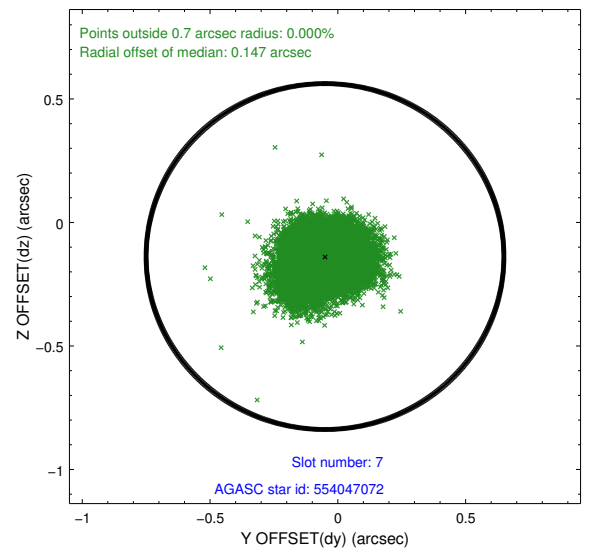
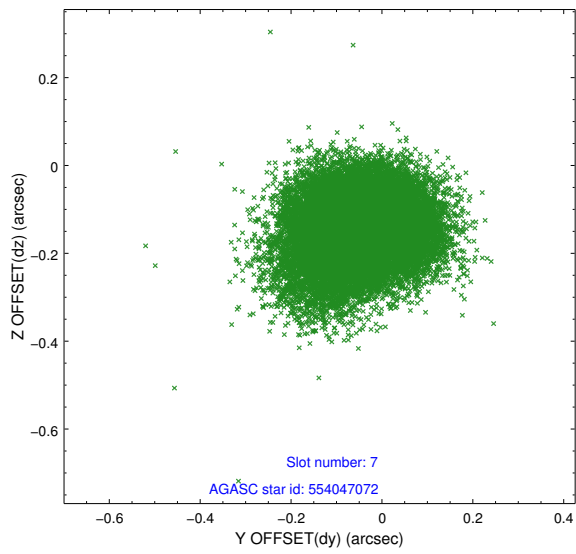
### 2.4.3 Slot 5



### 2.4.4 Slot 6

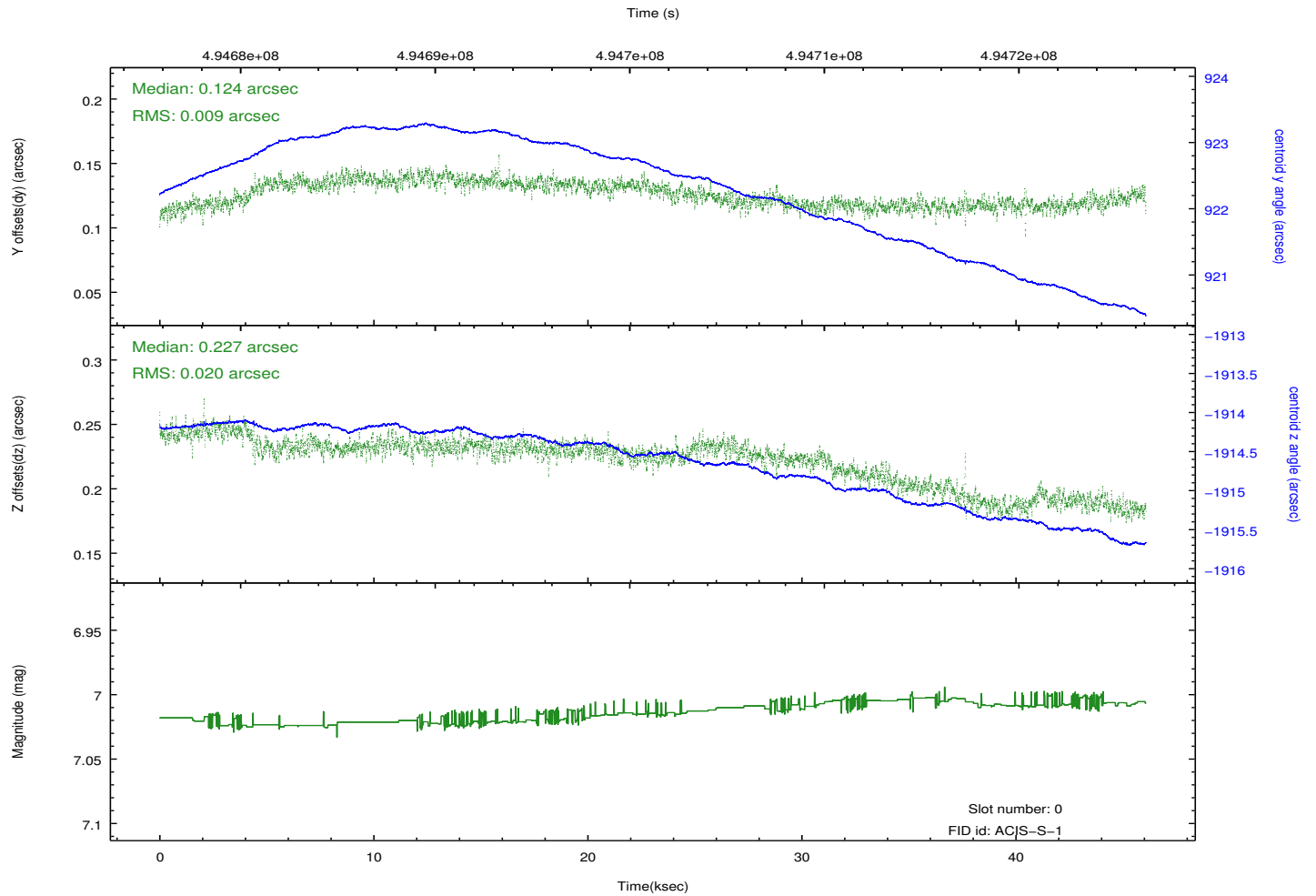
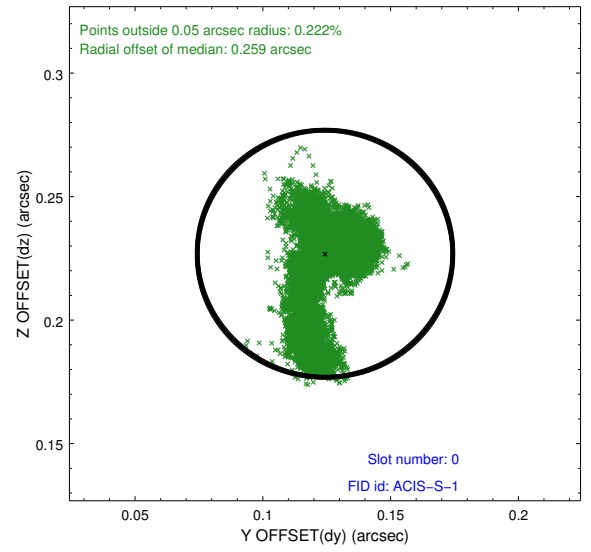
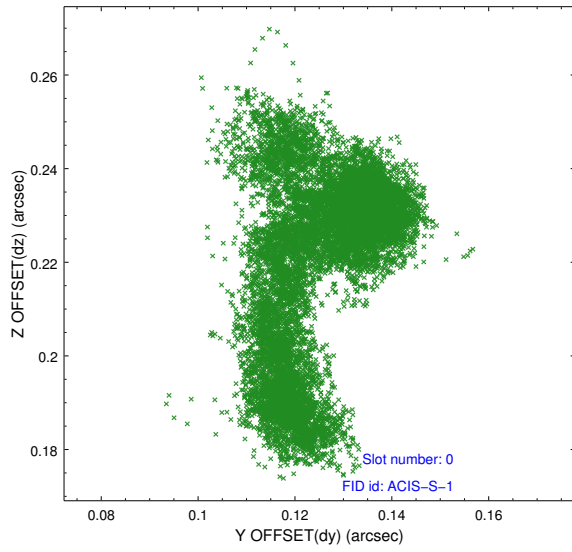


## 2.4.5 Slot 7

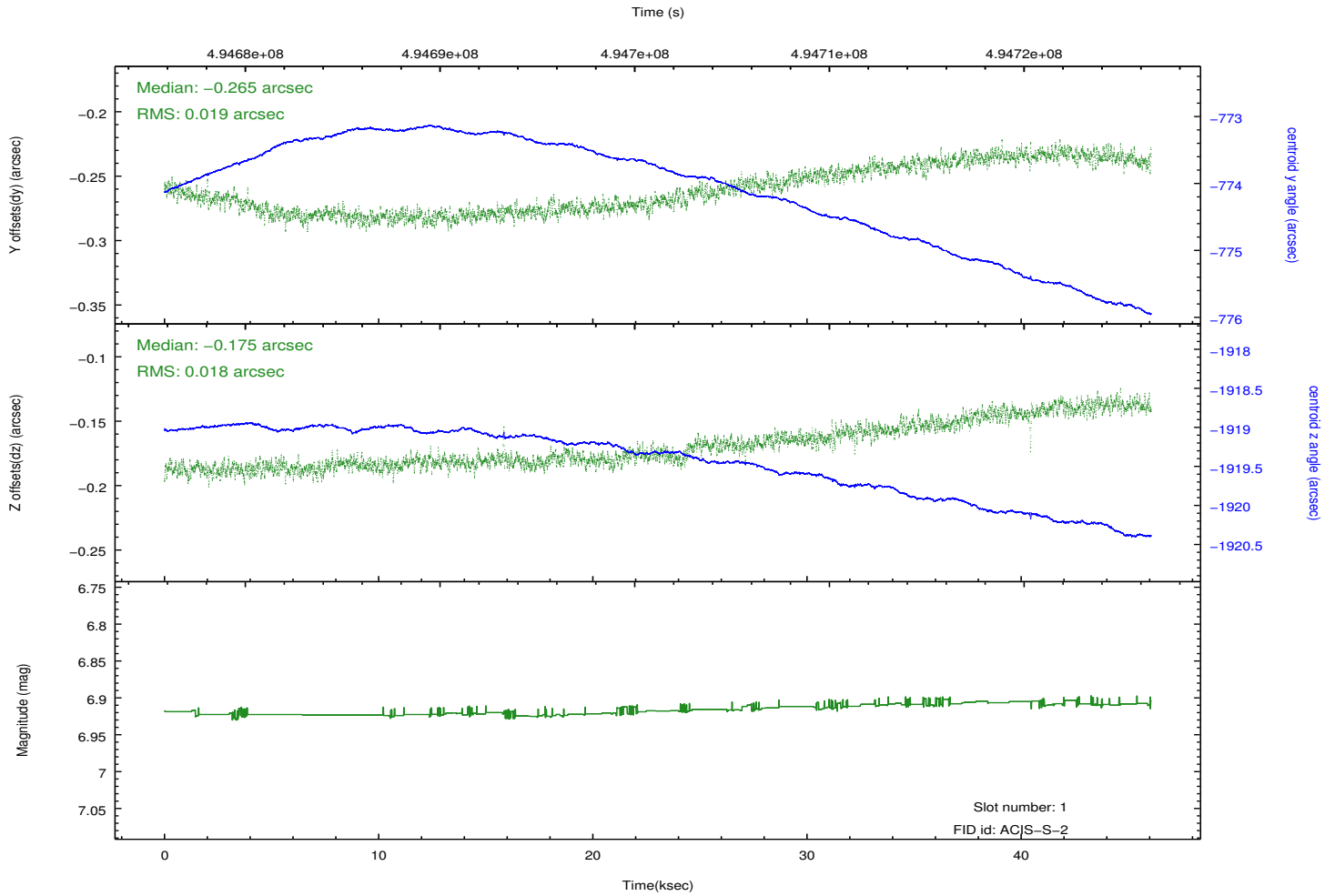
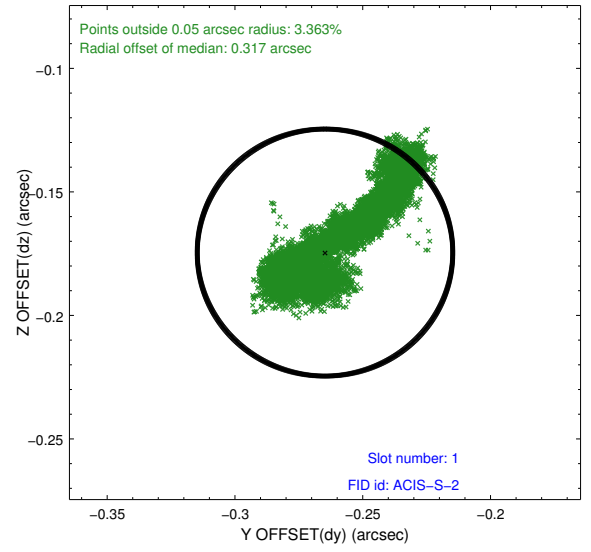
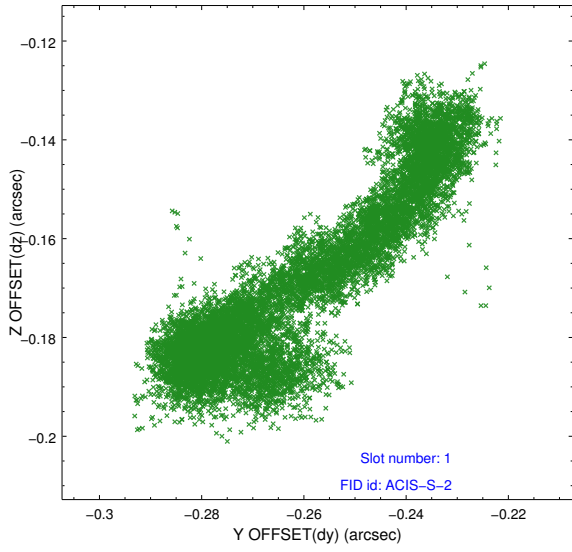


## 2.5 FID Slots

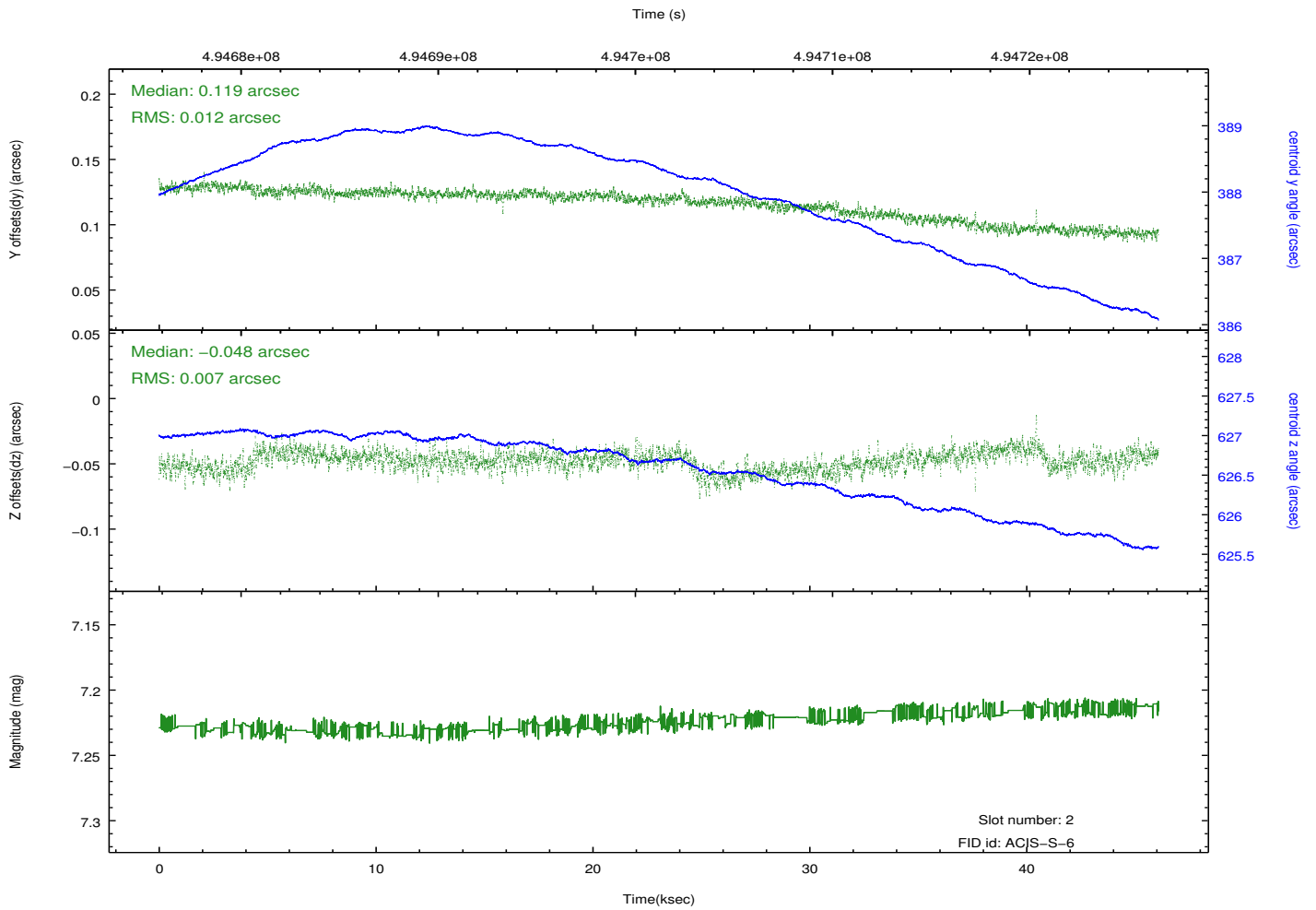
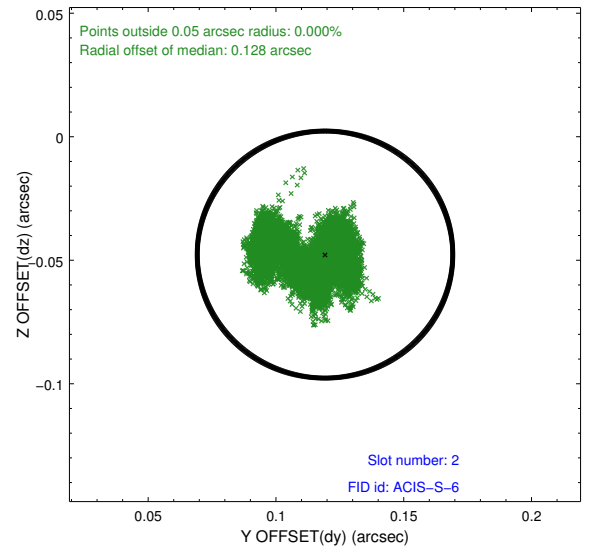
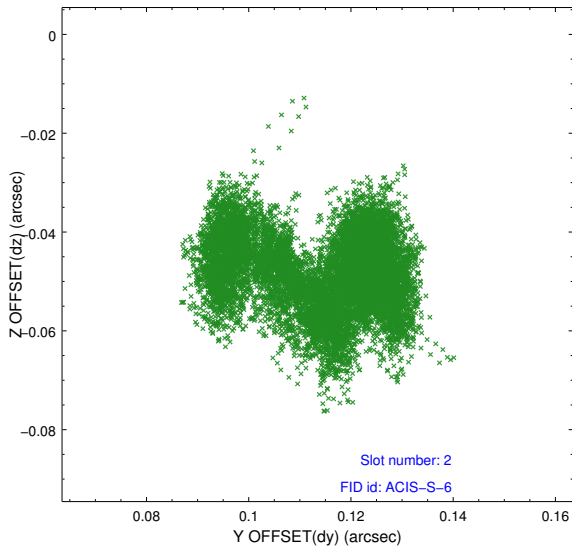
### 2.5.1 Slot 0



## 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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.980895995677

## A.2 Comments

Joint Proposal with HST. Roll preference met.

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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.