

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 15033 - L2 Version 2  
Chandra X-Ray Center

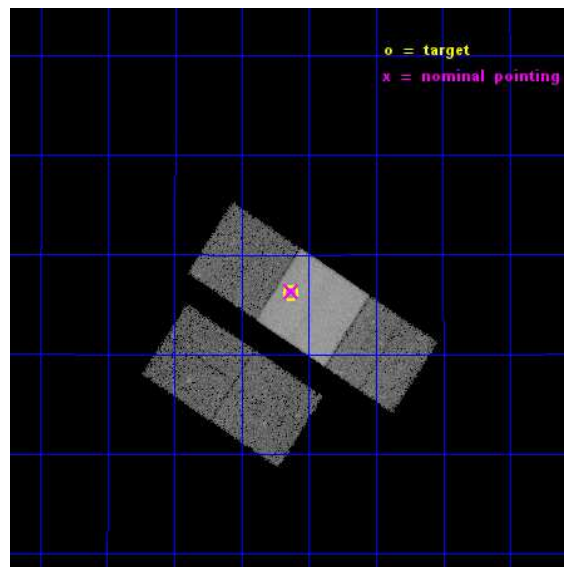
L2 Processing Date : Nov 30 2014

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# 1 Front

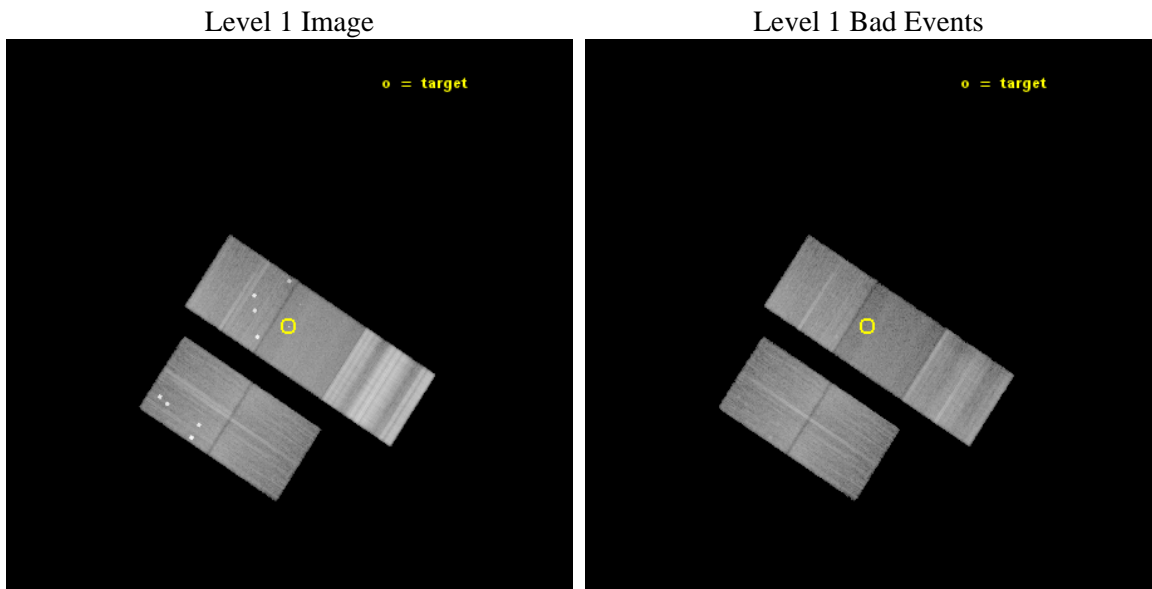
seq_num	702840	Sequence number
obs_id	15033	Observation id
title	Are Double-Peaked Optical Emission Lines Reliable Indicators of Dual AGNs?	Proposal title
observer	Dr. Claire Max	Principal investigator
object	SDSS J154107.82+203608.8	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	235.2825	Observer's specified target RA [deg]
dec_targ	20.602444	Observer's specified target Dec [deg]
ra_nom	235.2824756347	Nominal RA [deg]
dec_nom	20.605464753376	Nominal Dec [deg]
roll_nom	33.210485351336	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25059.23593092	Sum of GTIs [s]
livetime	24731.818565141	Livetime [s]
ontime2	24704.134070158	Sum of GTIs [s]
ontime3	24792.165171266	Sum of GTIs [s]
ontime6	24588.038407743	Sum of GTIs [s]
ontime7	25059.23593092	Sum of GTIs [s]
ontime8	24971.163581192	Sum of GTIs [s]
l2events	149334	Number of level 2 events



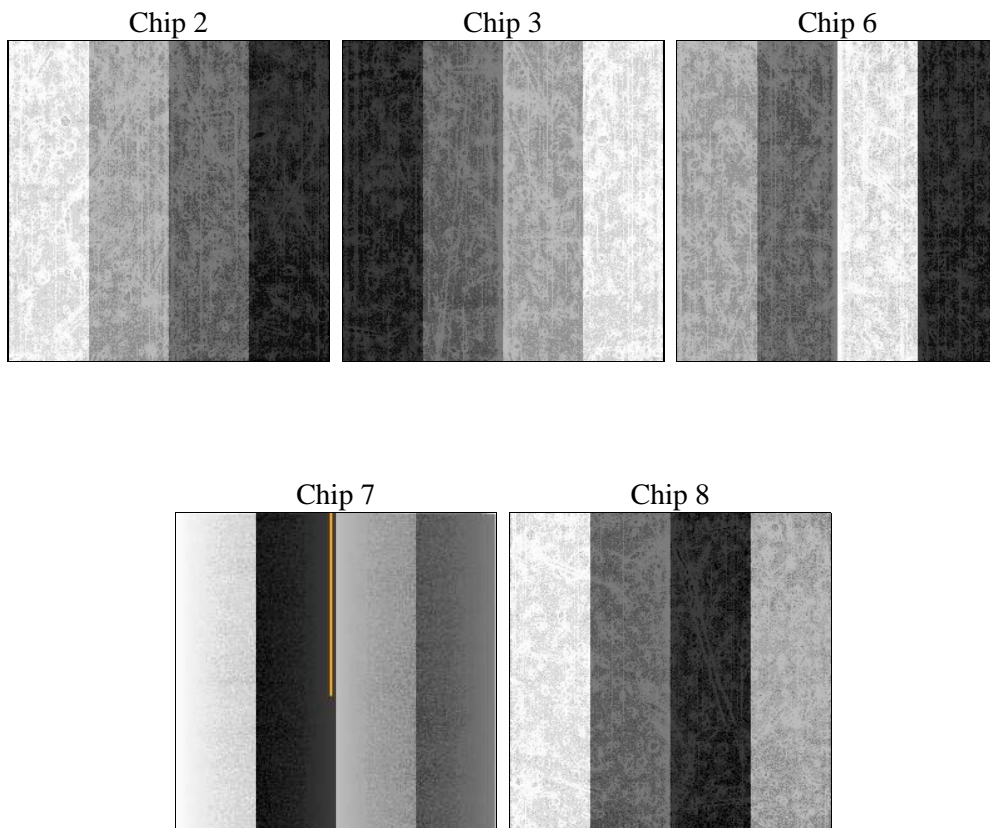
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25059.23593092	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime2	24704.134070158	Sum of GTIs [s]
date	2014-11-30T07:42:38	Date and time of file creation	ontime3	24792.165171266	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	24588.038407743	Sum of GTIs [s]
			ontime7	25059.23593092	Sum of GTIs [s]
			ontime8	24971.163581192	Sum of GTIs [s]
			l1events	1535879	Number of level 1 events

### 2.1.4 Events

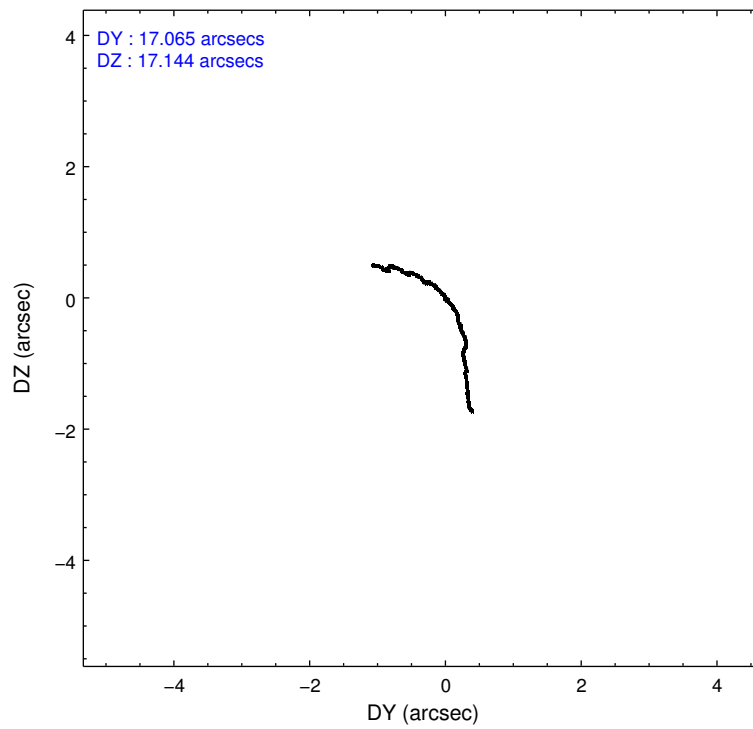
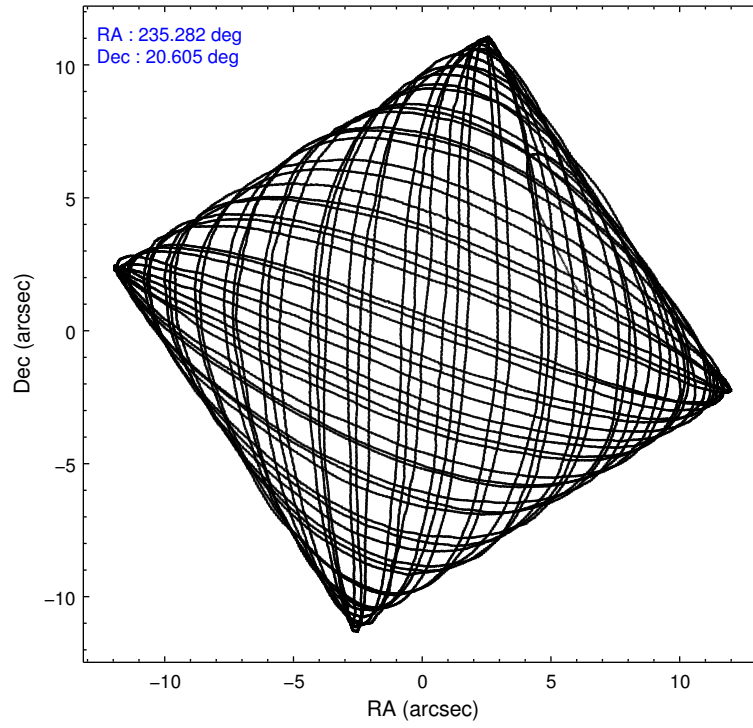
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	250236	191868	242786	203772	647217
rejected events	183637	175938	192274	112635	219836
rejected %	73%	91%	79%	55%	33%

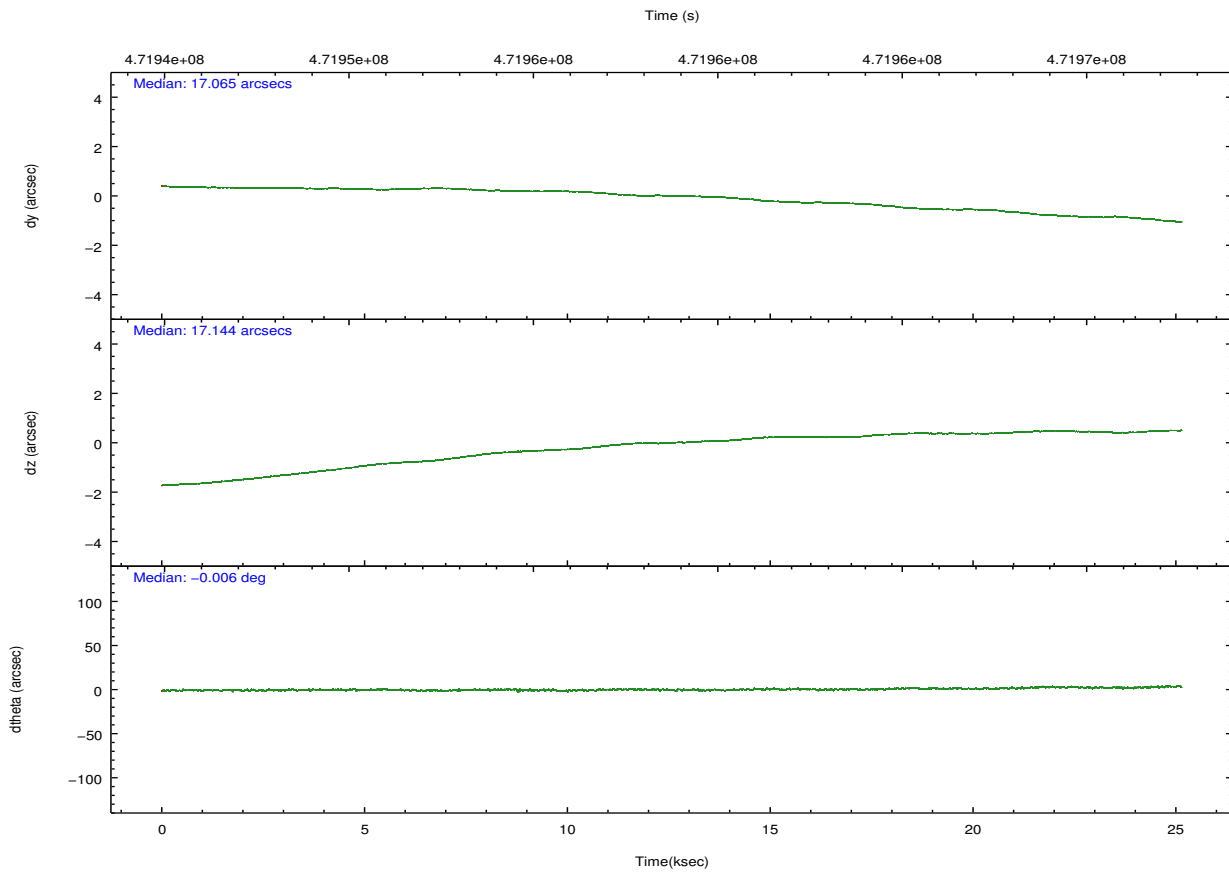
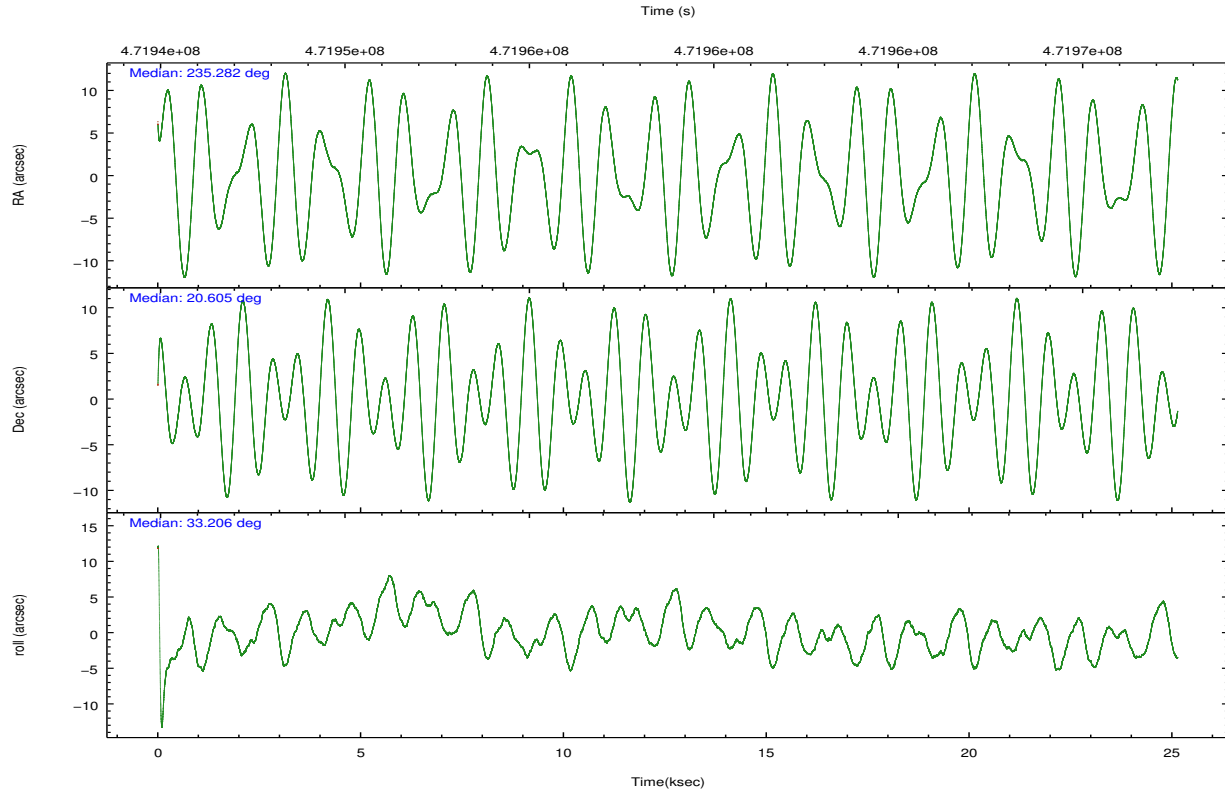
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	41725	5489	23596	9207	130029
	16%	2%	9%	4%	20%
grade 1 events	326	84	188	441	1096
	0%	0%	0%	0%	0%
grade 2 events	16462	4076	19923	22151	58868
	6%	2%	8%	10%	9%
grade 3 events	1516	1605	1654	8004	78310
	0%	0%	0%	3%	12%
grade 4 events	3020	1618	1631	7945	71962
	1%	0%	0%	3%	11%
grade 5 events	5733	6874	6946	19059	14859
	2%	3%	2%	9%	2%
grade 6 events	3888	3149	3719	43847	88251
	1%	1%	1%	21%	13%
grade 7 events	177566	168973	185129	93118	203842
	70%	88%	76%	45%	31%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	235.269656	235.2824756346991	CCD I2 on	O2	Y
[deg] Pointing Dec	20.580892	20.60546475337628	CCD I3 on	O3	Y
[deg] Pointing Roll	33.058352	33.21048535133607	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	O4	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)	471946318.184000	471945029.53869	CCD S5 on	N	N
Observation start date	2012-12-15T08:10:51	2012-12-15T07:50:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	471971318.184000	471972234.57765	On-chip summing requested	N	N
Observation end date	2012-12-15T15:07:31	2012-12-15T15:23:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





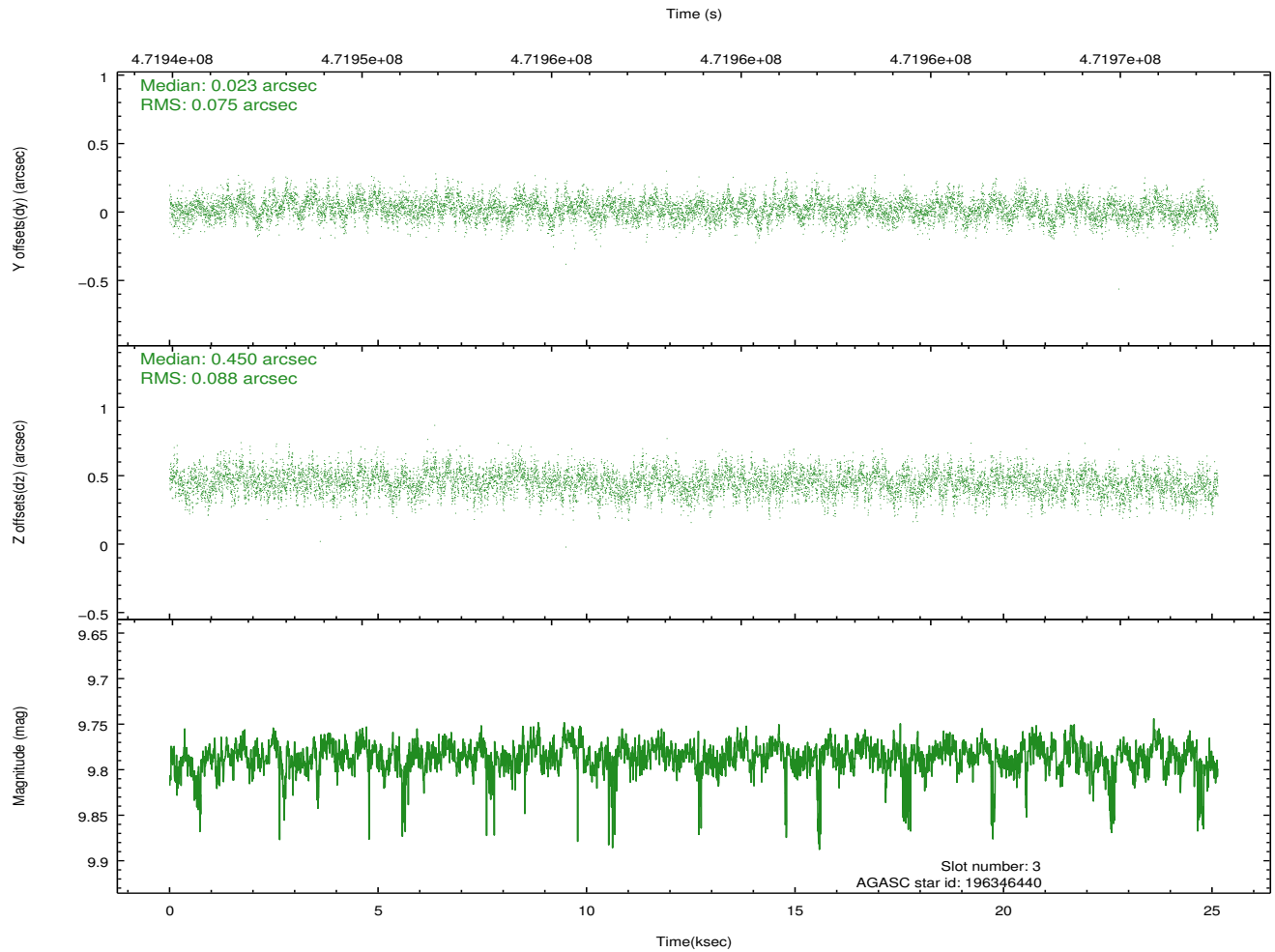
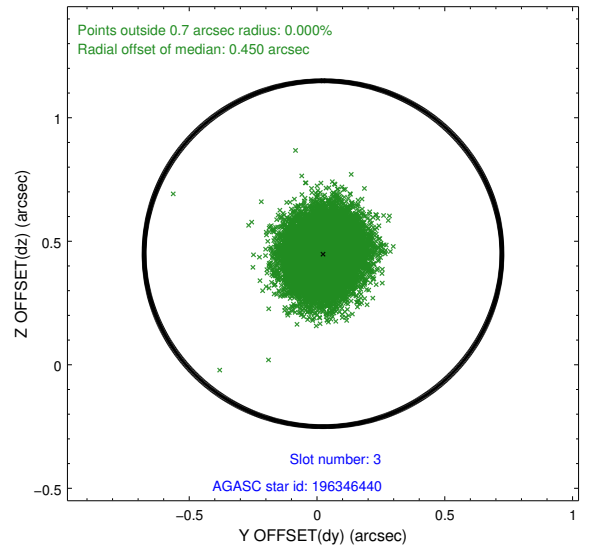
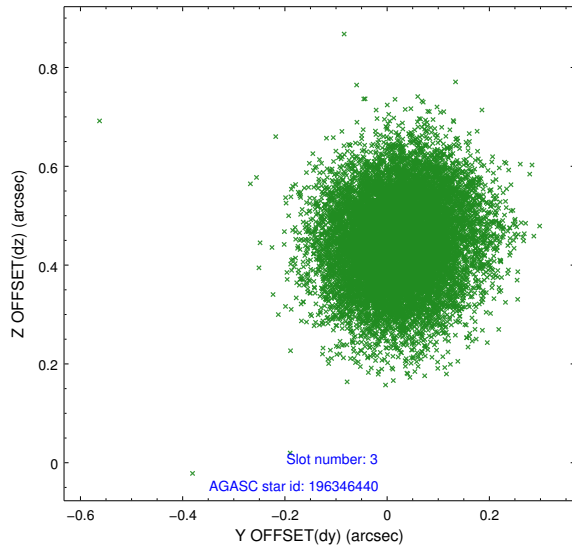
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.12	6132	-0.010	-0.072	0.031	0.044	0.000000	0.000000	926.08	-1733.97
1	FID		ACIS-S-4	7.12	6132	0.090	-0.005	0.015	0.027	0.000000	0.000000	2143.63	170.15
2	FID		ACIS-S-6	7.25	6131	-0.102	0.082	0.020	0.032	0.000000	0.000000	392.04	807.70
3	GUIDE	used	196346440	9.79	12252	0.023	0.450	0.125	0.197	235.075803	19.937912	-1811.87	-1581.38
4	GUIDE	used	196742240	8.91	12256	0.193	0.150	0.095	0.154	235.388227	20.112157	-583.98	-1632.66
5	GUIDE	used	196742600	9.79	12244	0.133	-0.171	0.183	0.288	234.776959	20.343452	-1858.38	192.61
6	GUIDE	used	196742744	7.57	12262	-0.135	0.045	0.071	0.115	235.628734	20.598737	1049.83	-604.45
7	GUIDE	used	196749704	8.91	12256	-0.208	-0.481	0.111	0.182	234.990728	21.168908	370.26	2285.48

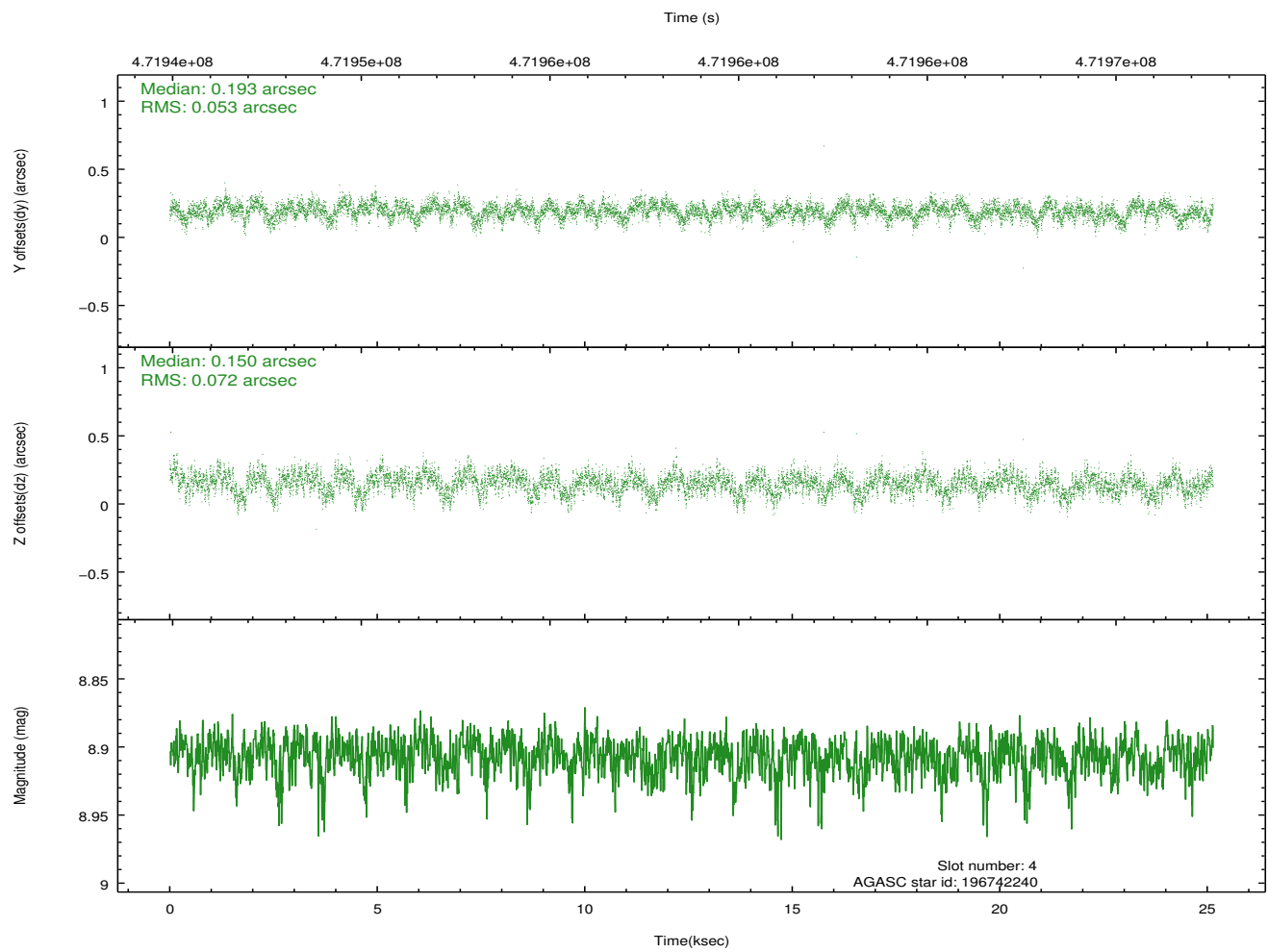
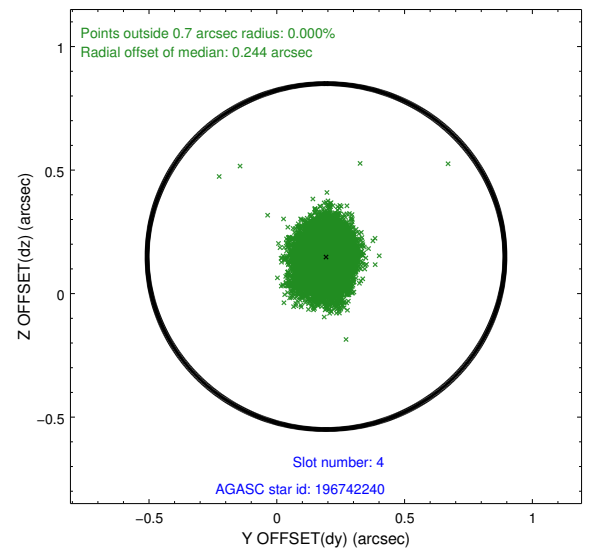
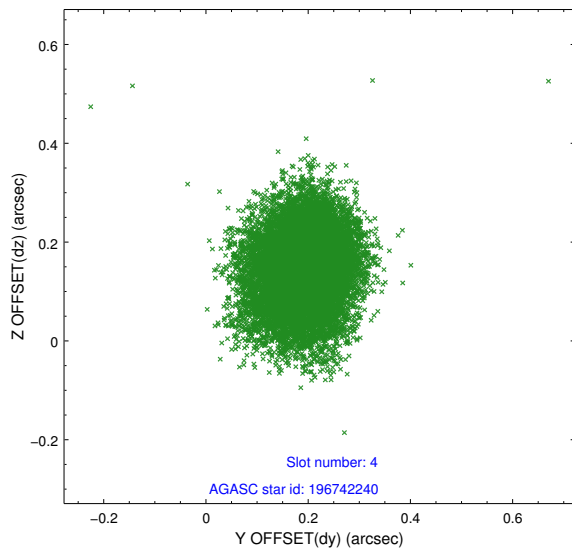
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## 2.4 Star Slots

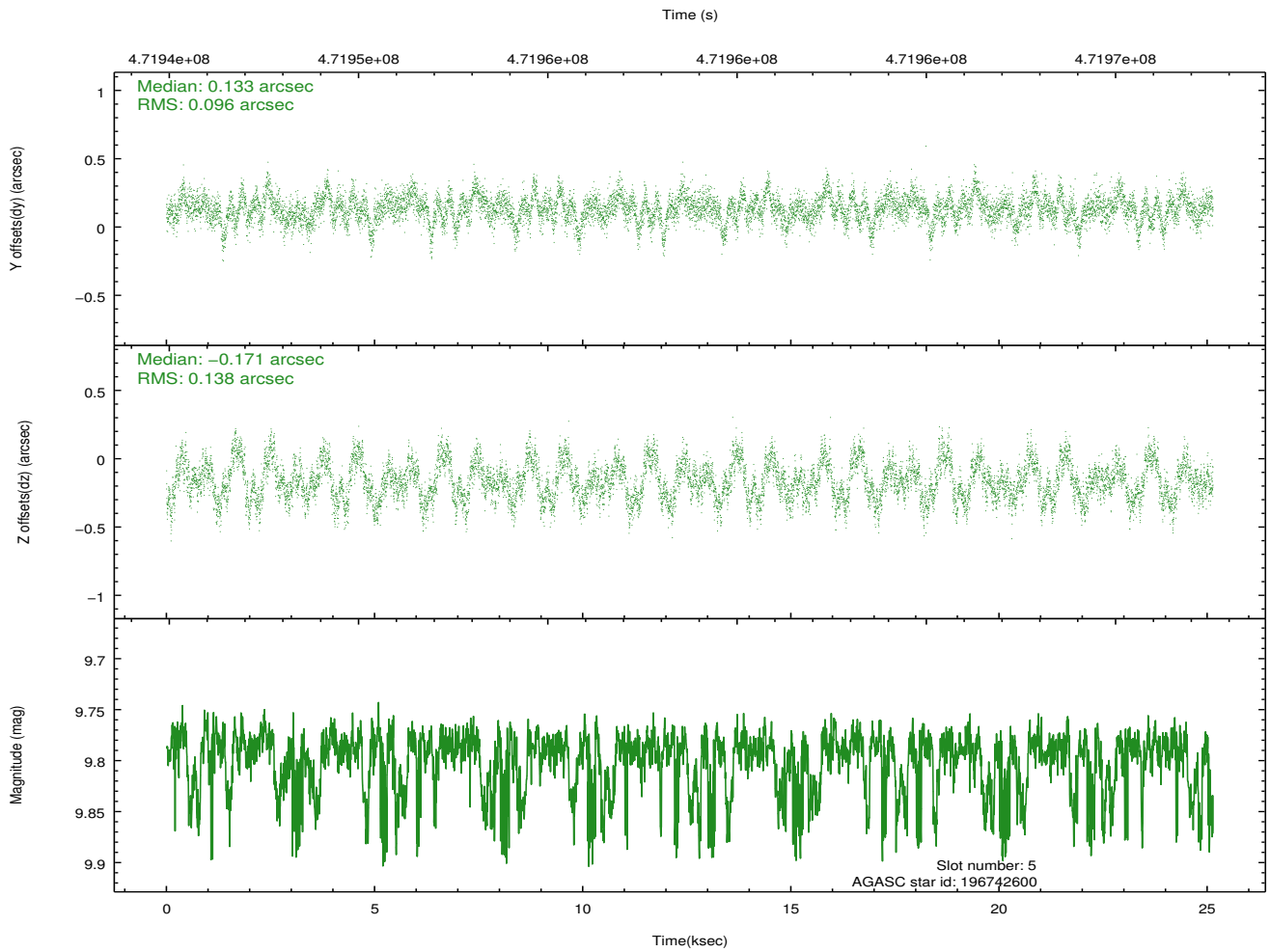
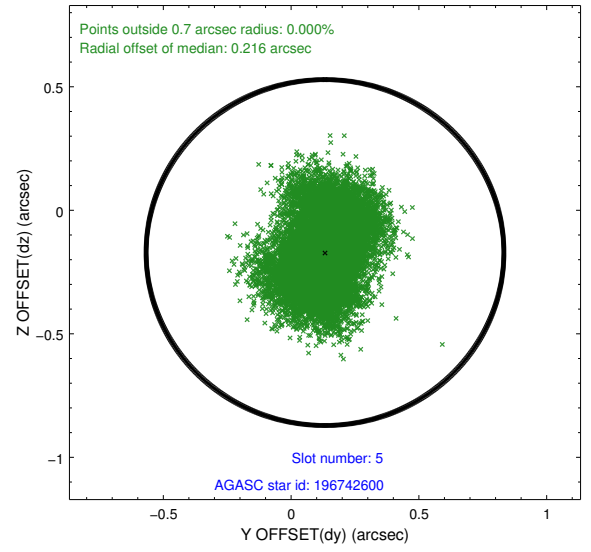
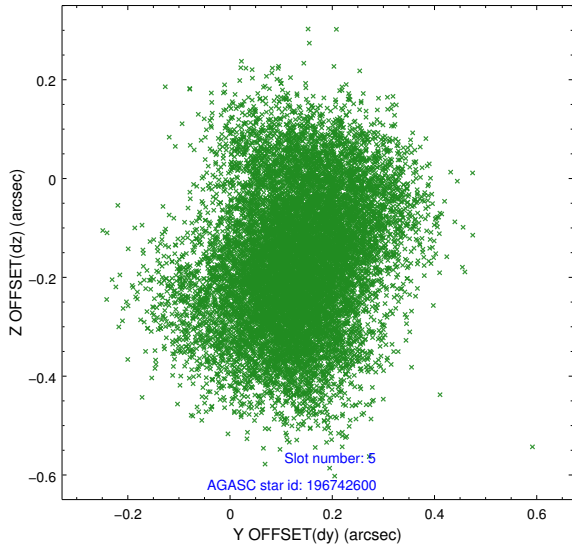
### 2.4.1 Slot 3



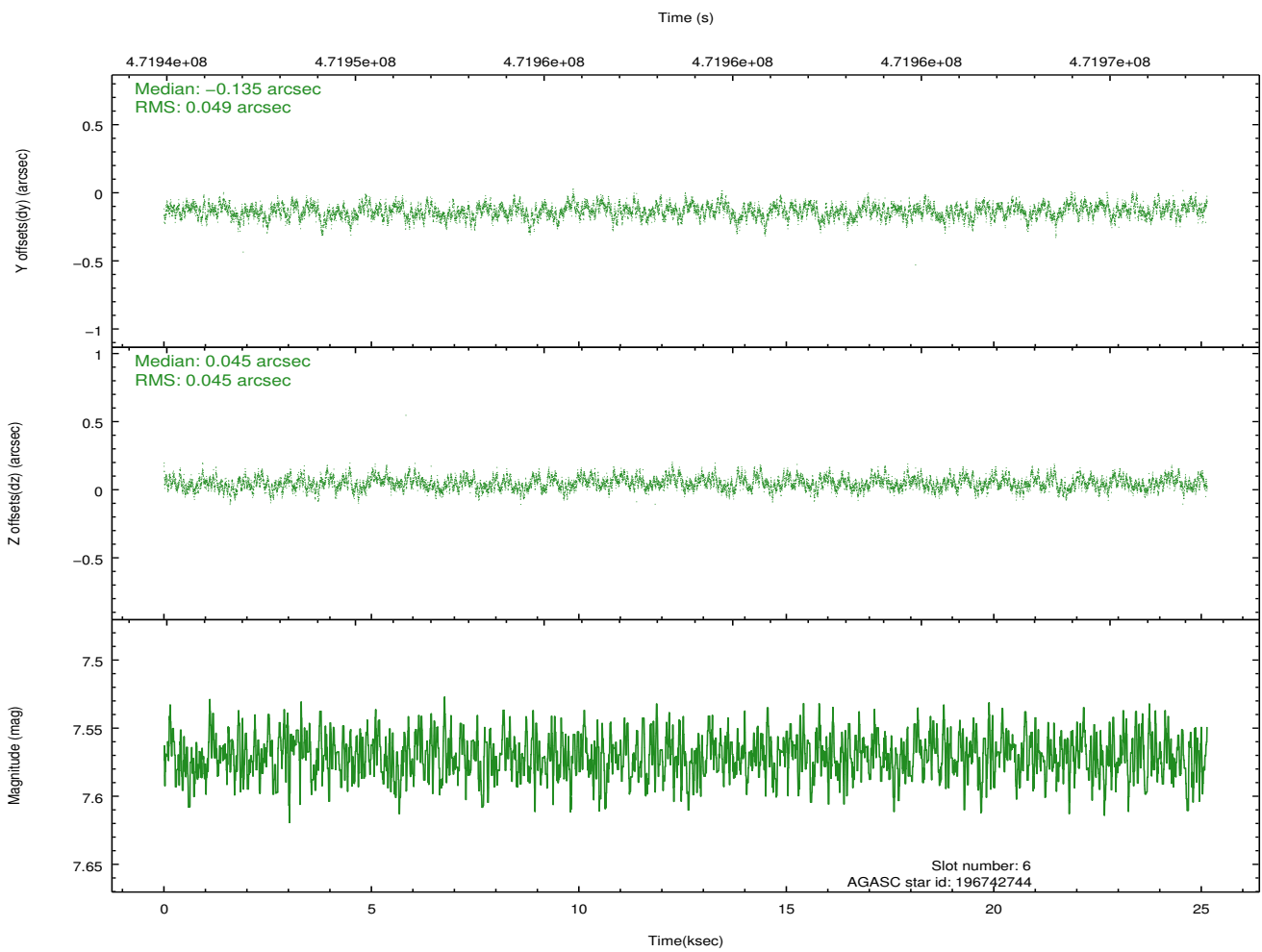
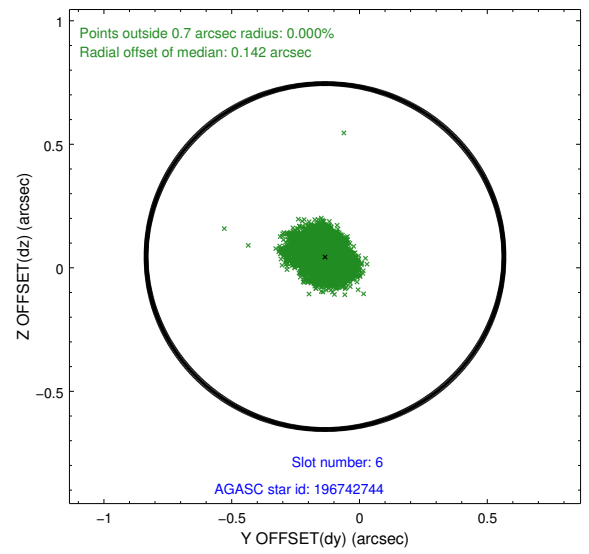
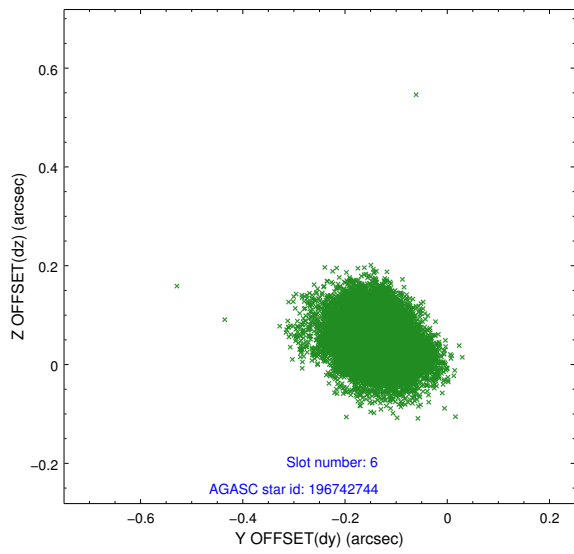
## 2.4.2 Slot 4



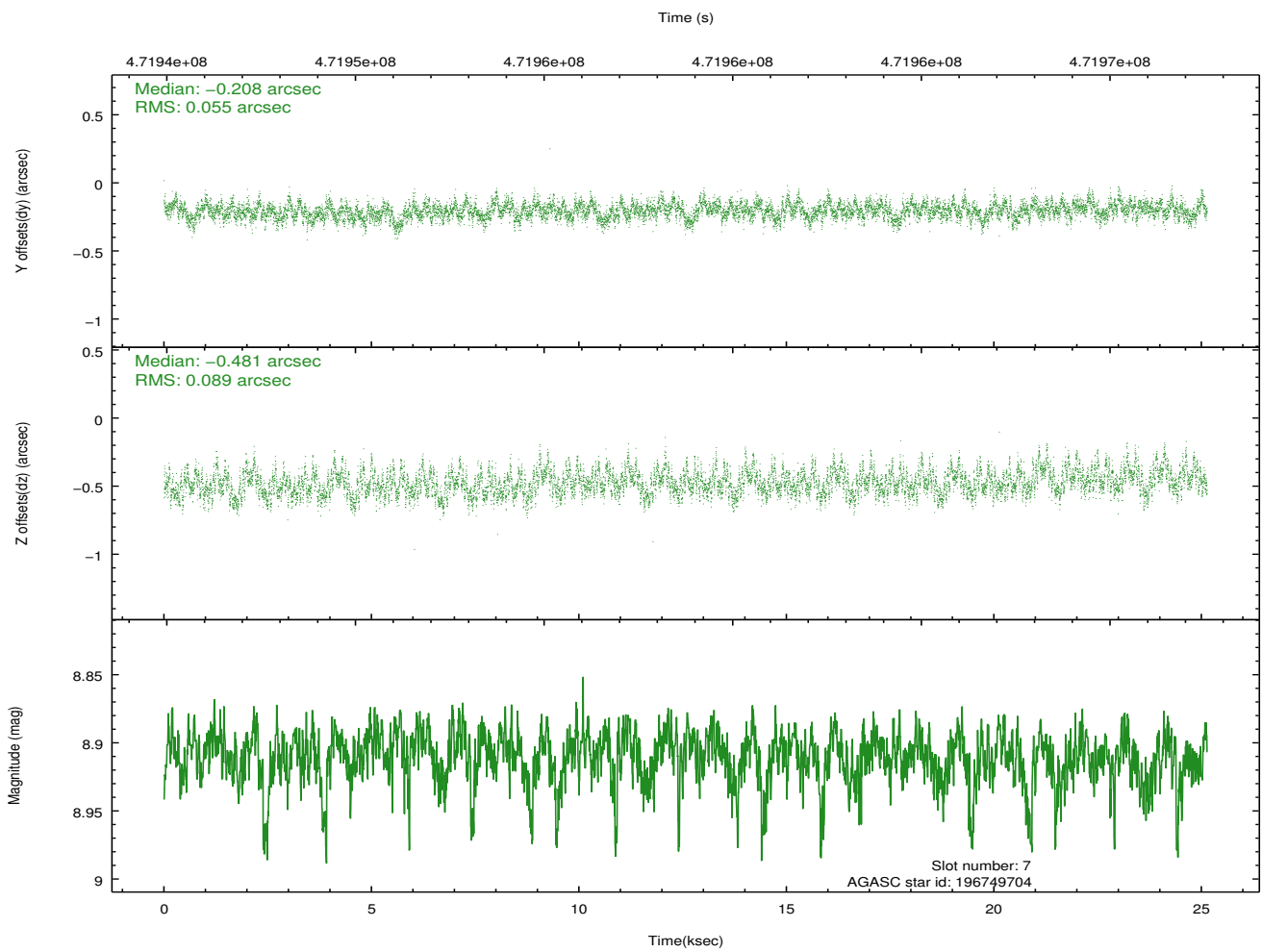
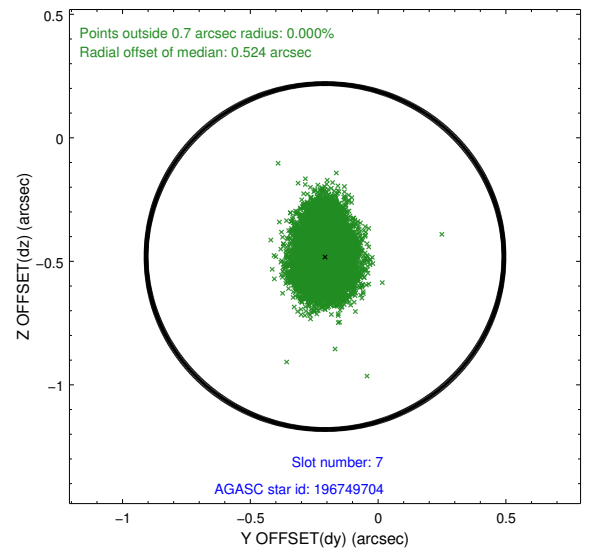
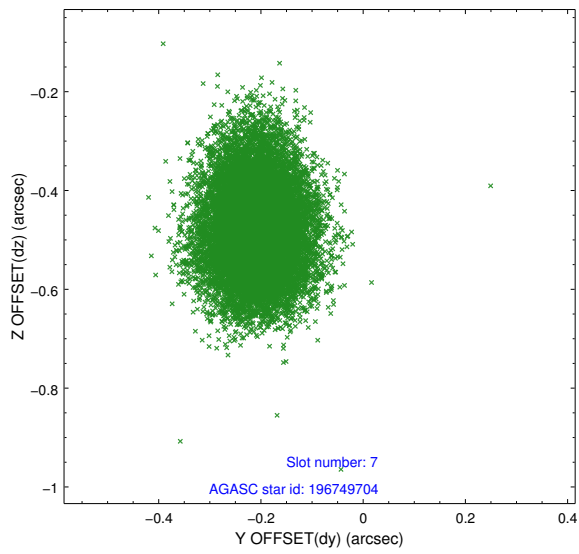
### 2.4.3 Slot 5



## 2.4.4 Slot 6

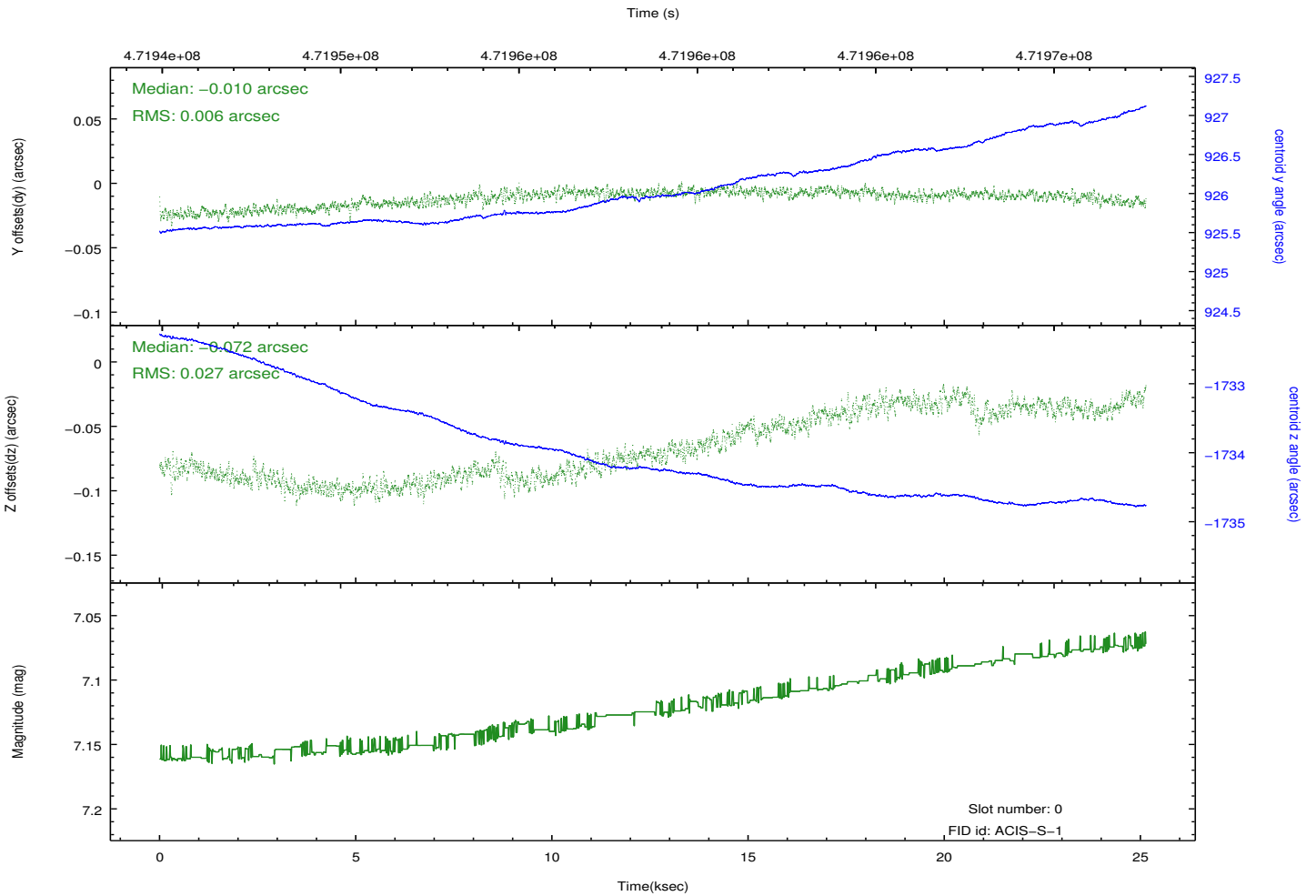
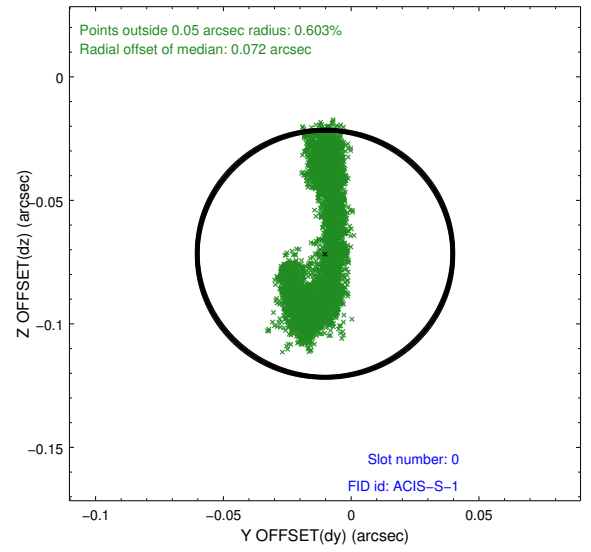
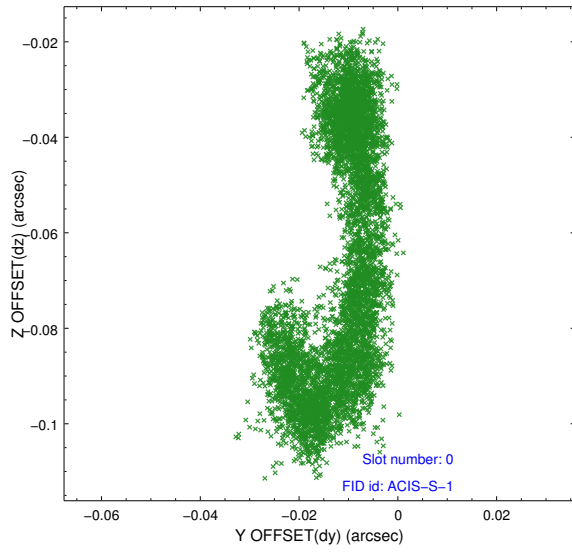


## 2.4.5 Slot 7

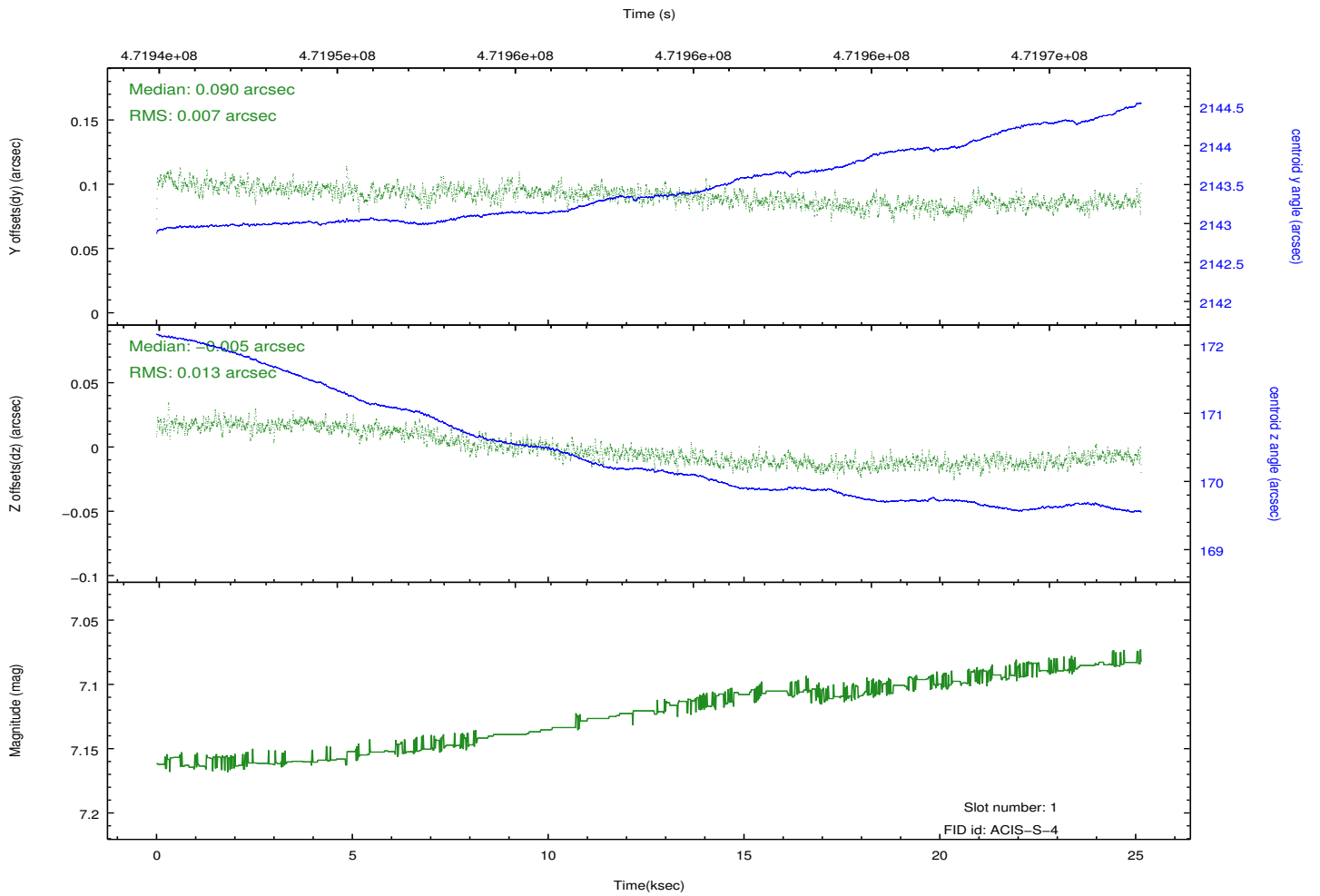
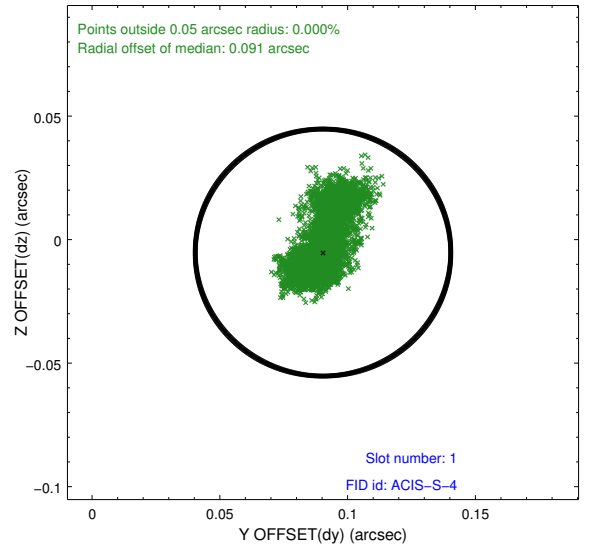
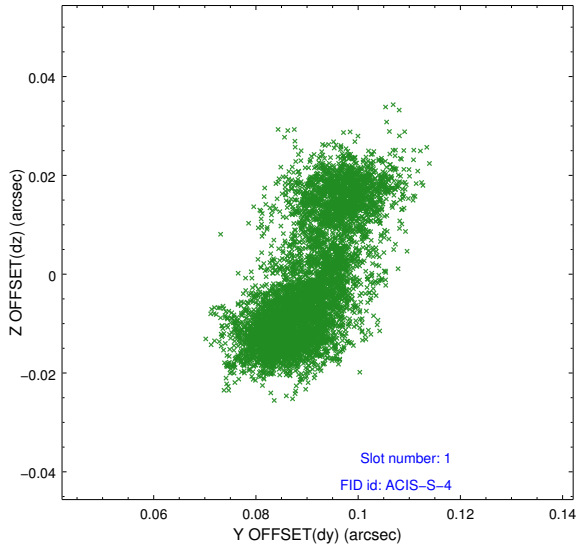


## 2.5 FID Slots

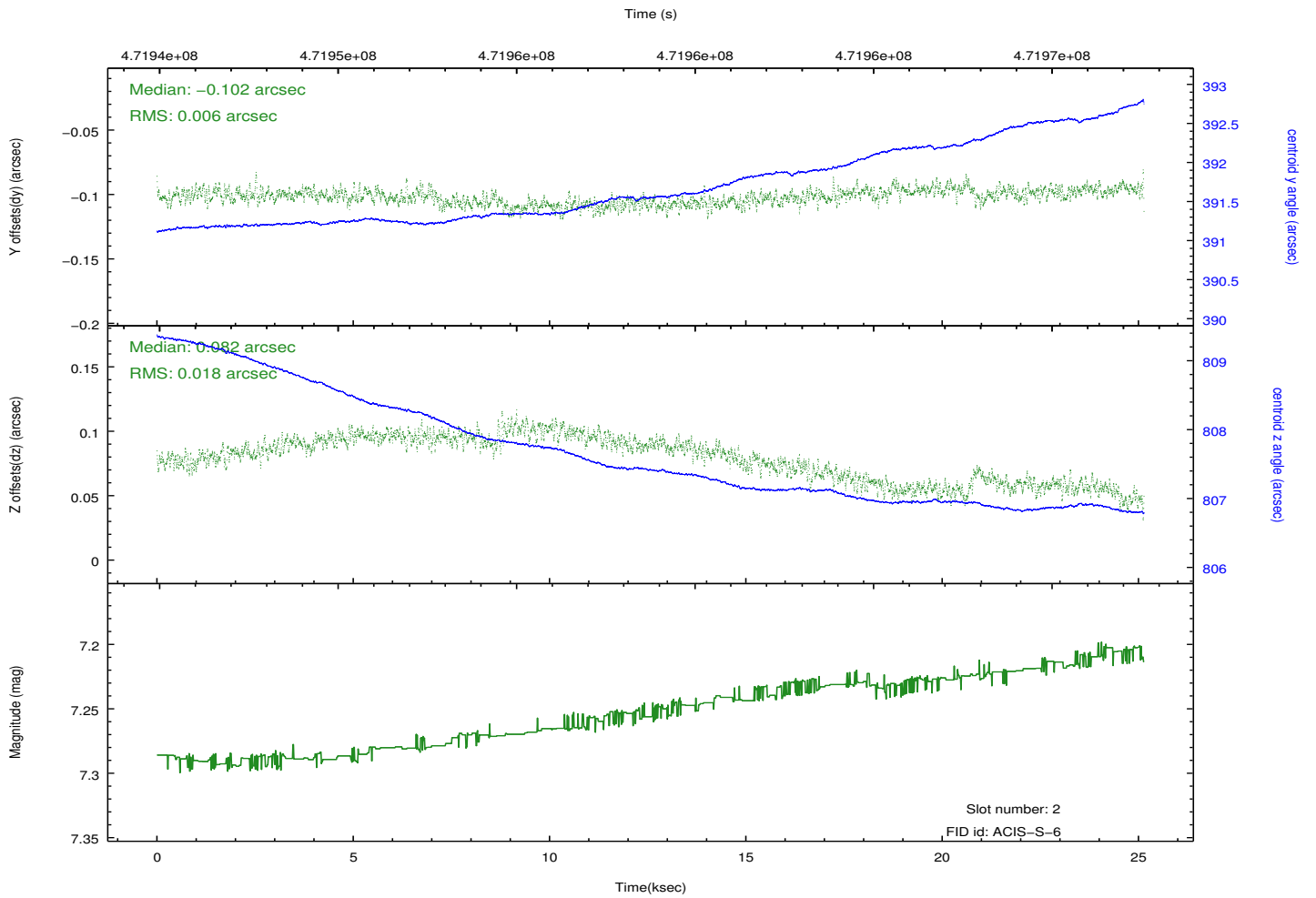
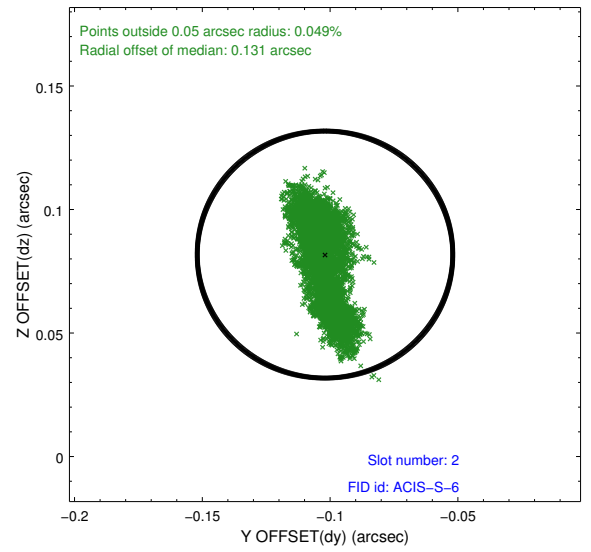
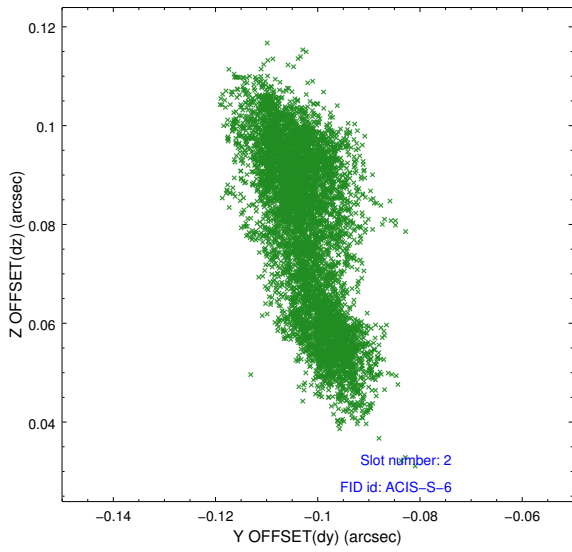
### 2.5.1 Slot 0



## 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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.05923593092

## 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.