

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18800 - L2 Version 1  
Chandra X-Ray Center

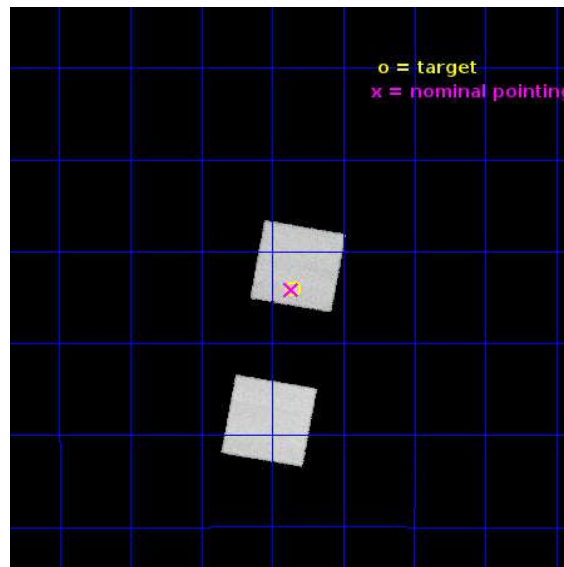
L2 Processing Date : Mar 9 2016

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# 1 Front

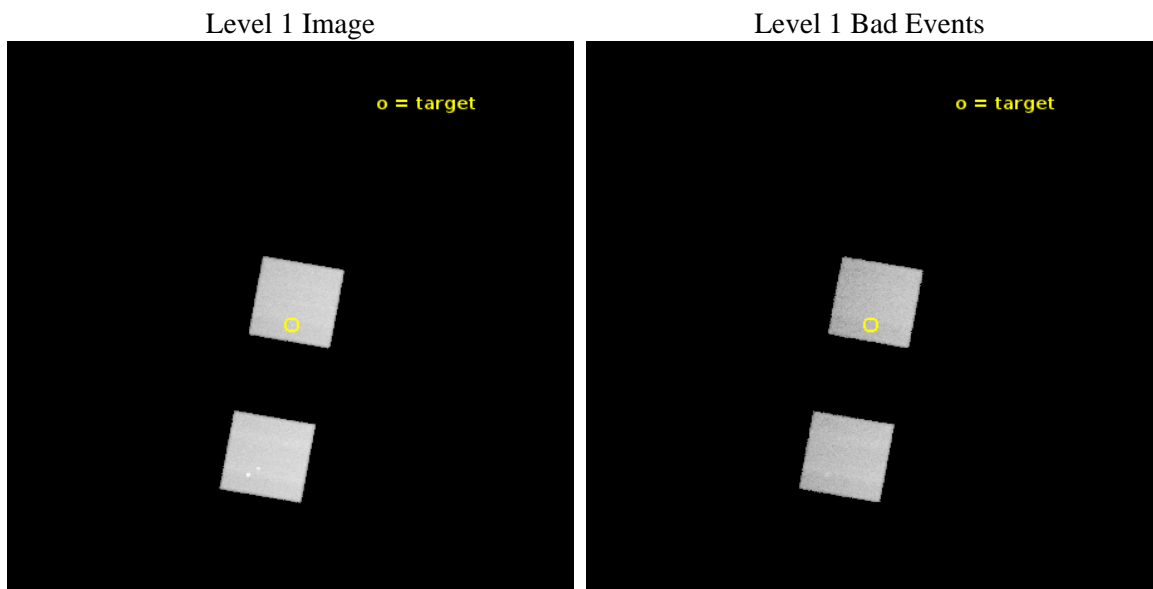
seq_num	300391	Sequence number
obs_id	18800	Observation id
title	The accretion disk of a rare jet-driving symbiotic binary during its brightest outburst in a ~century	Proposal title
observer	Adrian Lucy	Principal investigator
object	MWC 560	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	111.463705	Observer's specified target RA [deg]
dec_targ	-7.735581	Observer's specified target Dec [deg]
ra_nom	111.4664476481	Nominal RA [deg]
dec_nom	-7.7359441868665	Nominal Dec [deg]
roll_nom	280.15698894939	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25103.555706859	Sum of GTIs [s]
liveltime	24764.773603957	Livetime [s]
ontime5	25103.514666915	Sum of GTIs [s]
ontime7	25103.555706859	Sum of GTIs [s]
l2events	192878	Number of level 2 events



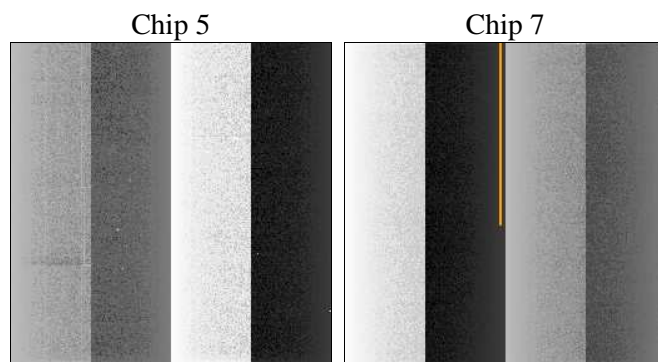
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	25103.555706859	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime5	25103.514666915	Sum of GTIs [s]
date	2016-03-09T17:40:08	Date and time of file creation	ontime7	25103.555706859	Sum of GTIs [s]
revision	1	Processing version of data	l1events	437869	Number of level 1 events

### 2.1.4 Events

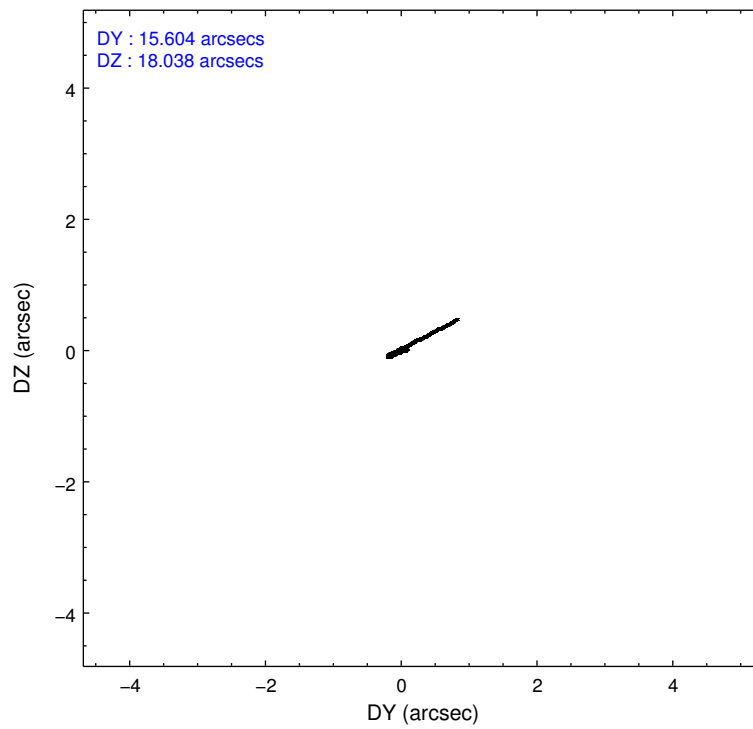
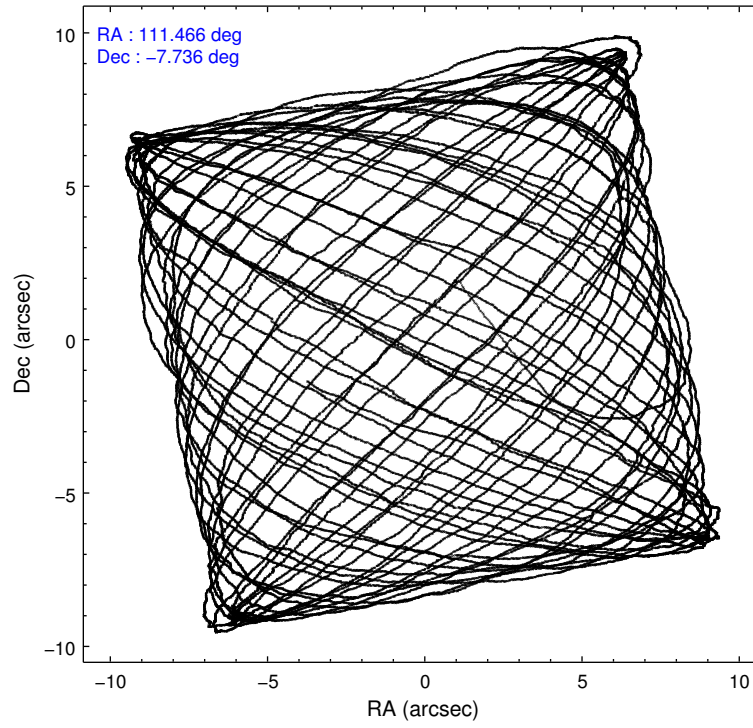
	ccd 5	ccd 7
level 1 events	240347	197522
rejected events	126180	112054
rejected %	52%	56%

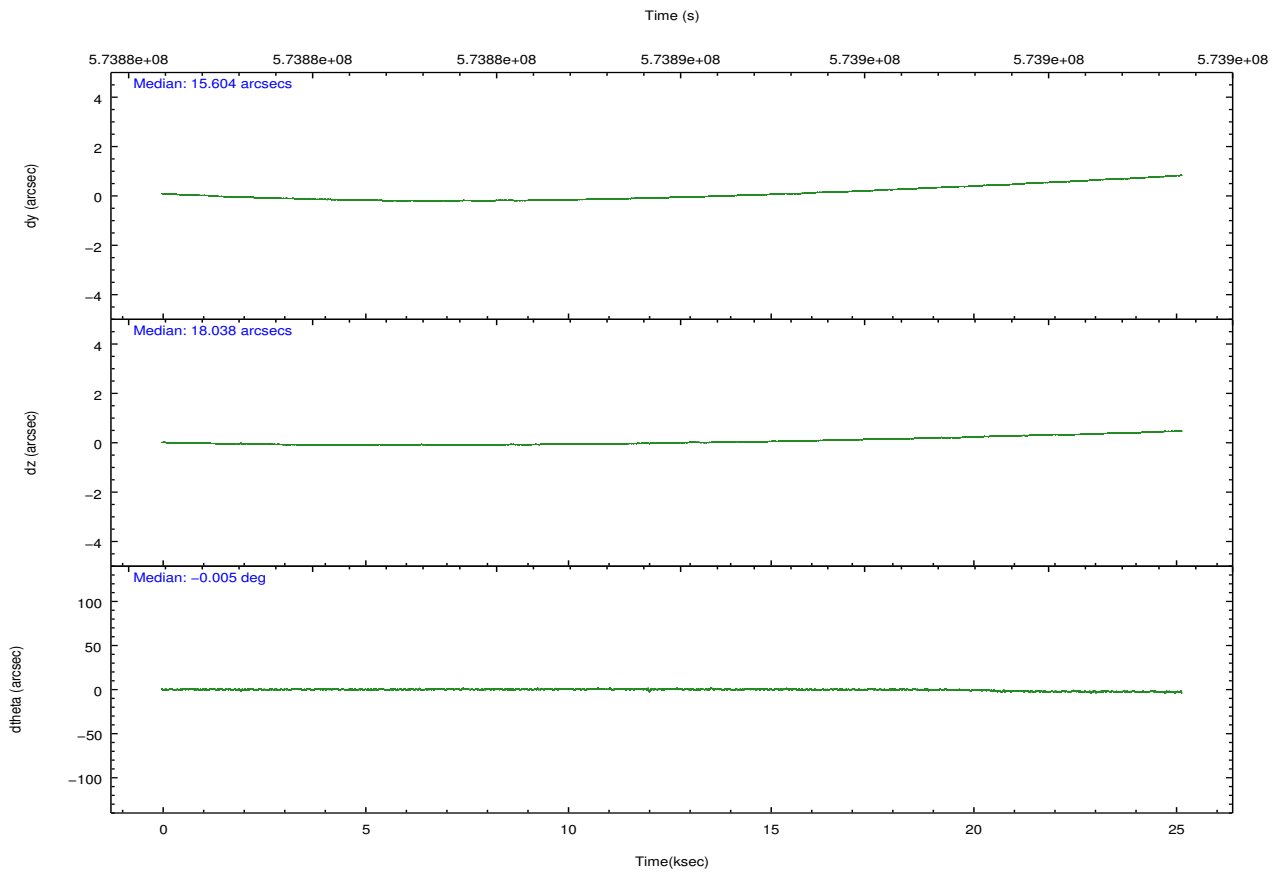
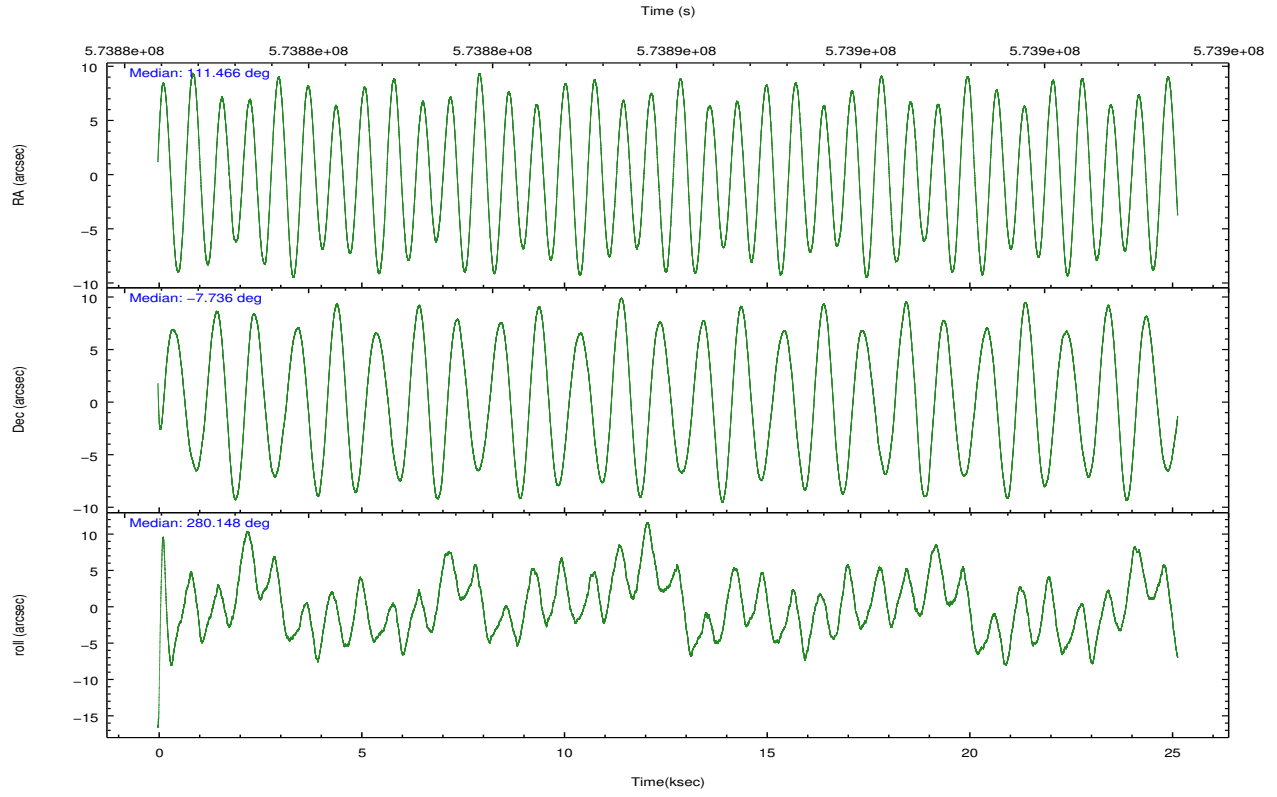
	ccd 5	ccd 7
grade 0 events	7584	7112
	3%	3%
grade 1 events	690	271
	0%	0%
grade 2 events	35106	17920
	14%	9%
grade 3 events	3518	6651
	1%	3%
grade 4 events	3454	6516
	1%	3%
grade 5 events	16337	19023
	6%	9%
grade 6 events	64522	47281
	26%	23%
grade 7 events	109136	92748
	45%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-57	ACIS-57	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	111.448282	111.4664476480987	CCD I2 on	N	N
[deg] Pointing Dec	-7.715206	-7.735944186866514	CCD I3 on	N	N
[deg] Pointing Roll	279.997920	280.156988949395	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	N	N
[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)	573877310.184000	573875742.1973701	CCD S5 on	N	N
Observation start date	2016-03-09T02:20:42	2016-03-09T01:55:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	573902310.184000	573903635.52396	On-chip summing requested	N	N
Observation end date	2016-03-09T09:17:22	2016-03-09T09:40:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3

## 2.3 Aspect





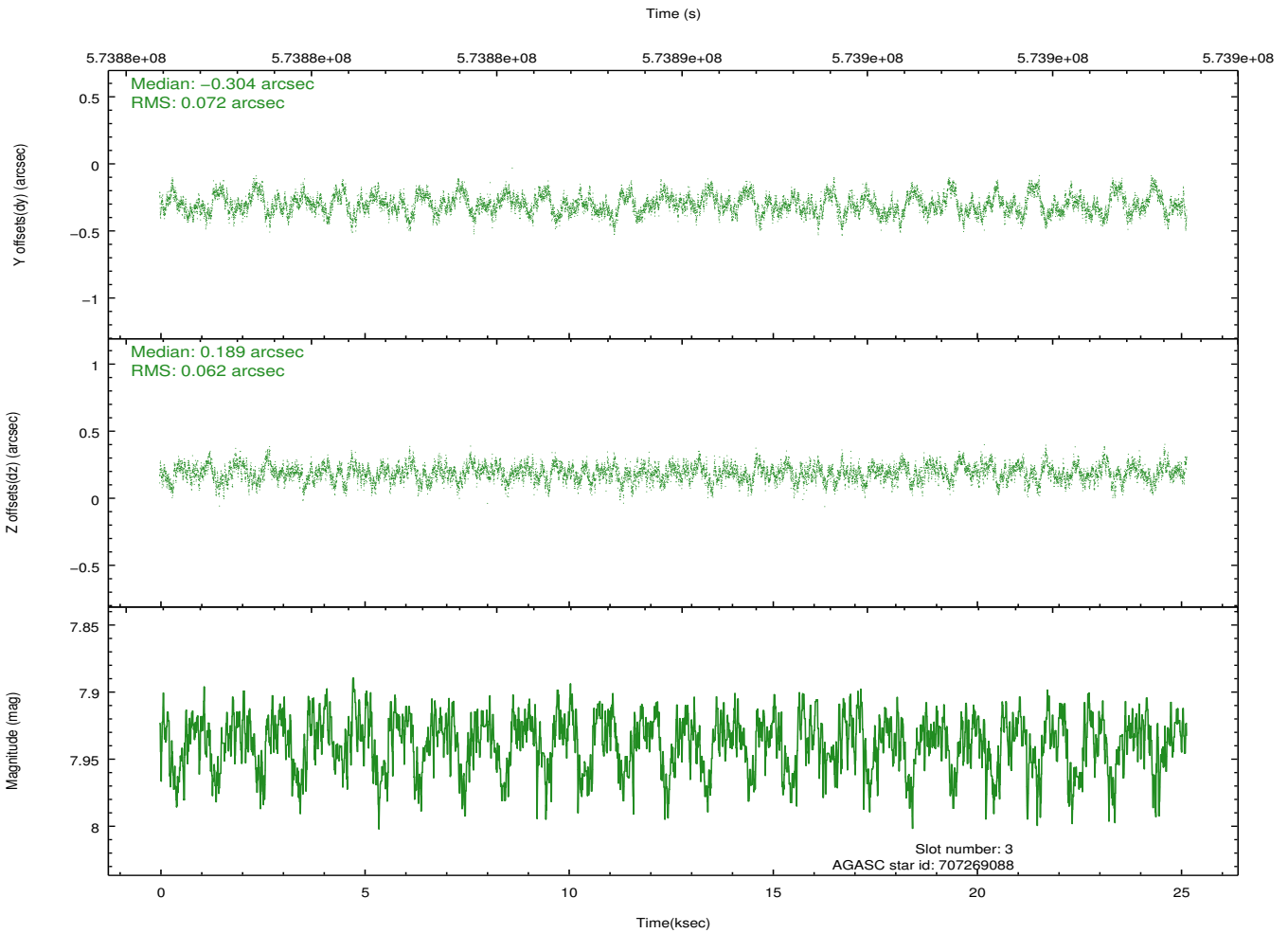
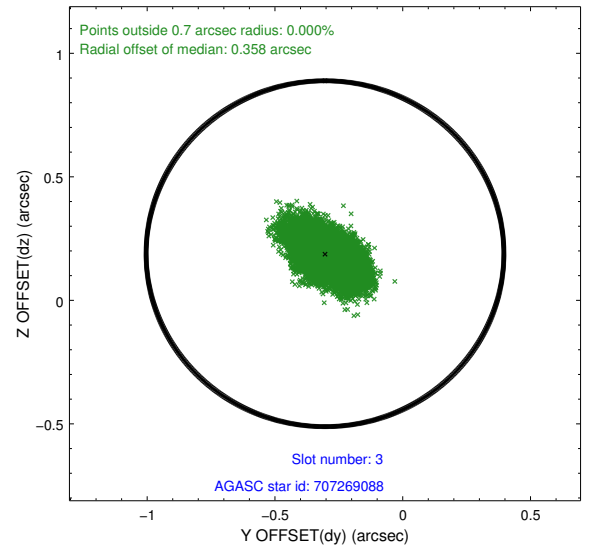
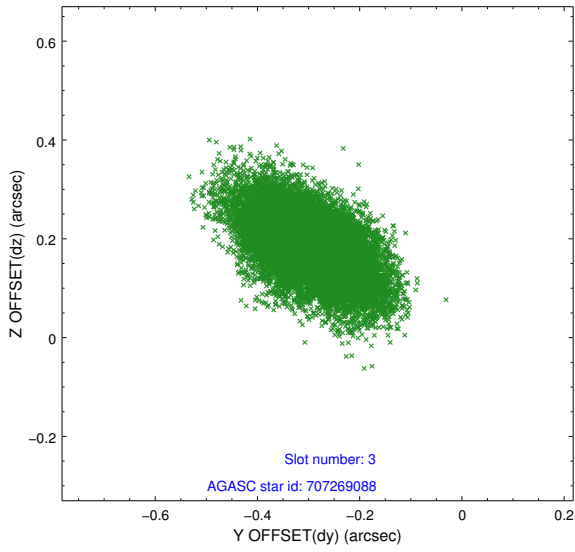
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.22	6136	0.378	0.012	0.007	0.013	0.000000	0.000000	2145.02	169.17
1	FID		ACIS-S-5	7.24	6136	-0.412	0.007	0.008	0.015	0.000000	0.000000	-1821.81	162.62
2	FID		ACIS-S-6	7.37	6136	0.004	-0.005	0.008	0.013	0.000000	0.000000	392.78	806.37
3	GUIDE	used	707269088	7.94	12268	-0.304	0.189	0.099	0.172	111.752960	-7.637079	-87.95	1119.51
4	GUIDE	used	707275824	9.22	12254	-0.008	0.041	0.145	0.231	111.208705	-8.128829	1319.00	-1099.12
5	GUIDE	used	707276360	9.04	12261	0.165	-0.032	0.103	0.171	112.042824	-7.546730	-227.16	2194.45
6	GUIDE	used	707154352	9.25	12253	0.344	-0.302	0.166	0.278	111.036786	-8.418930	2242.30	-1883.04
7	GUIDE	used	707273592	9.11	6132	-0.392	0.210	0.115	0.190	111.463687	-7.735598	82.20	41.26

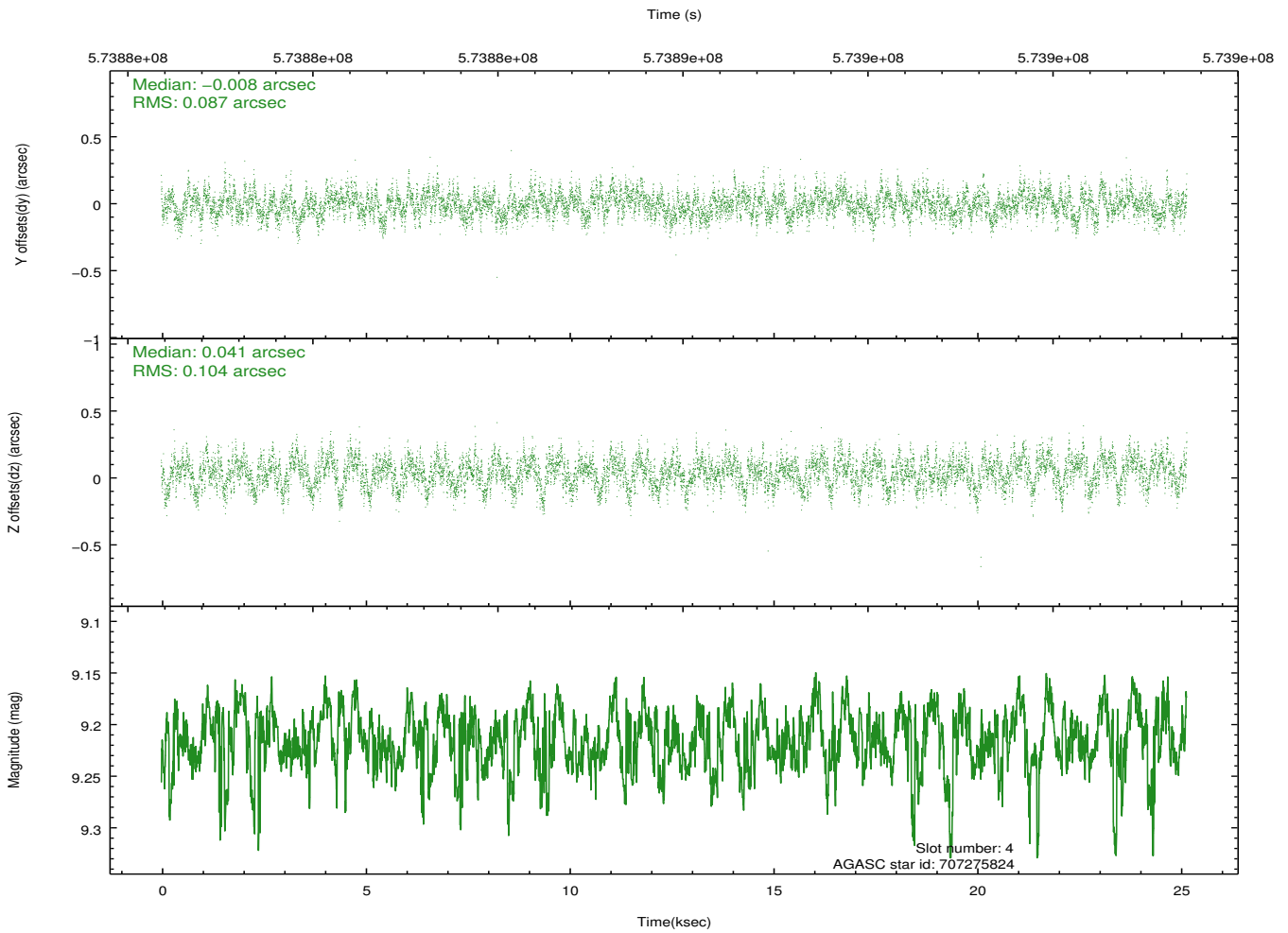
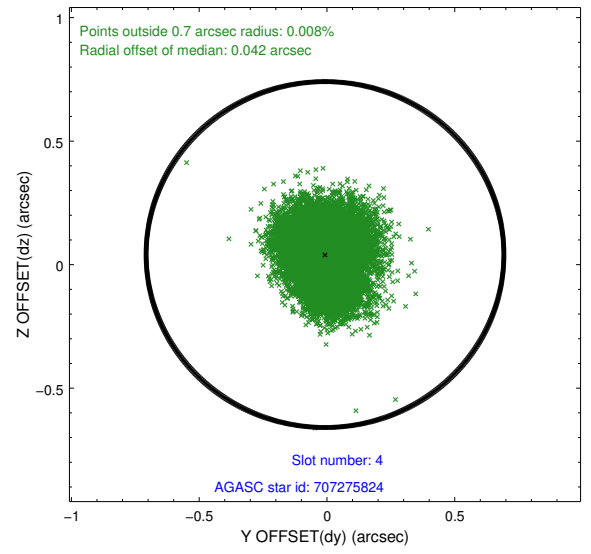
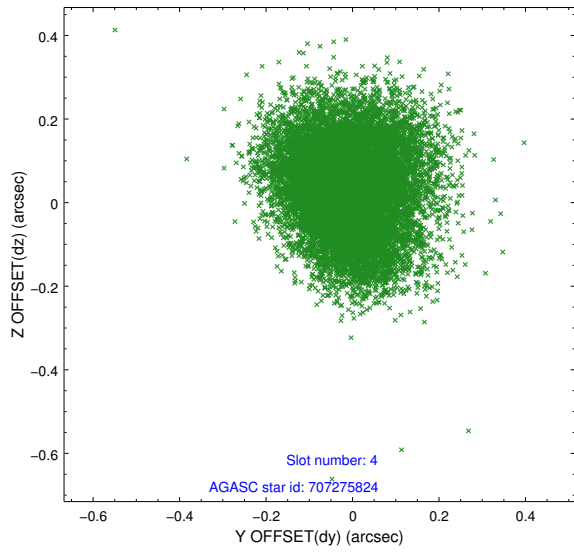
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## 2.4 Star Slots

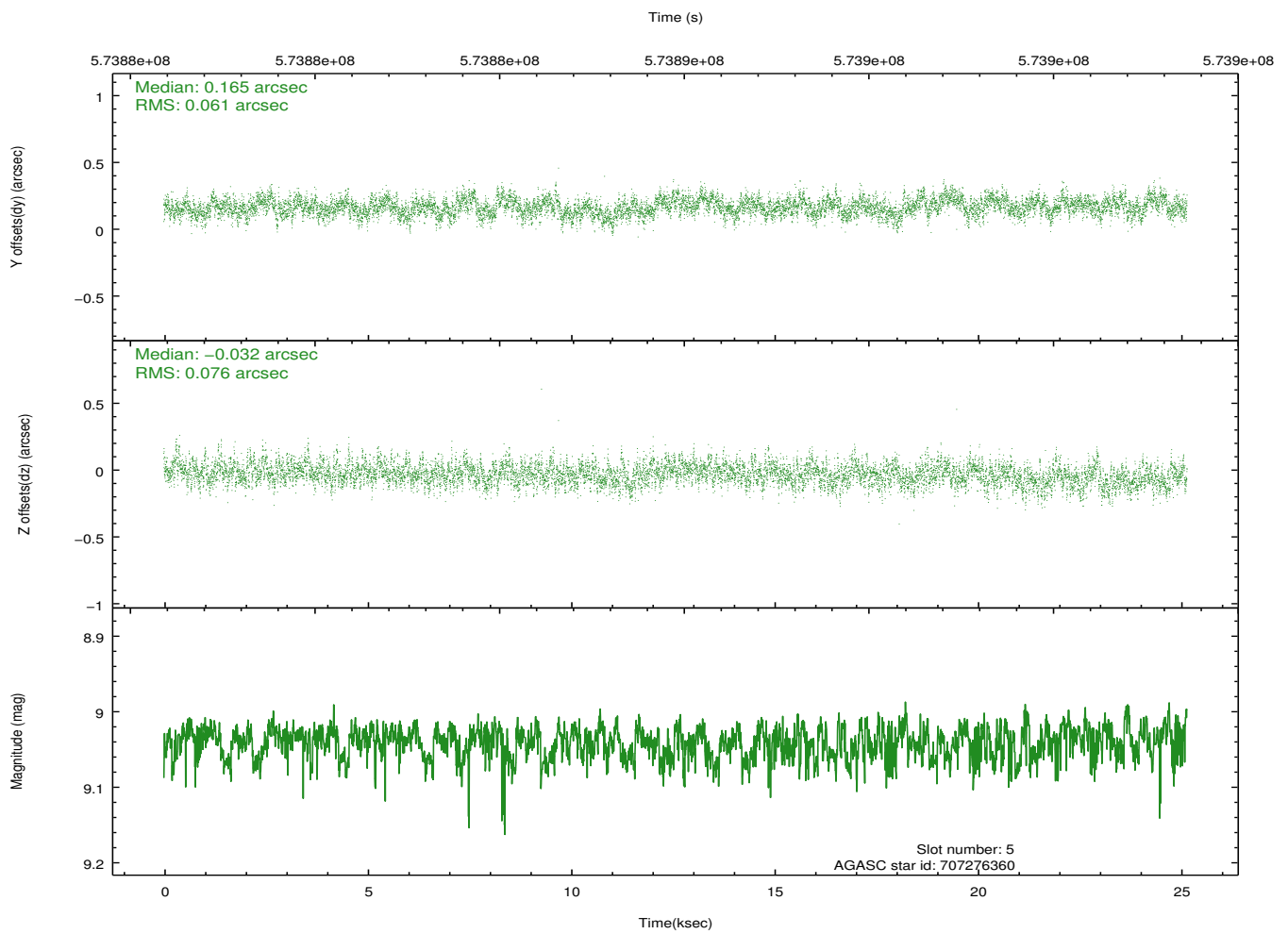
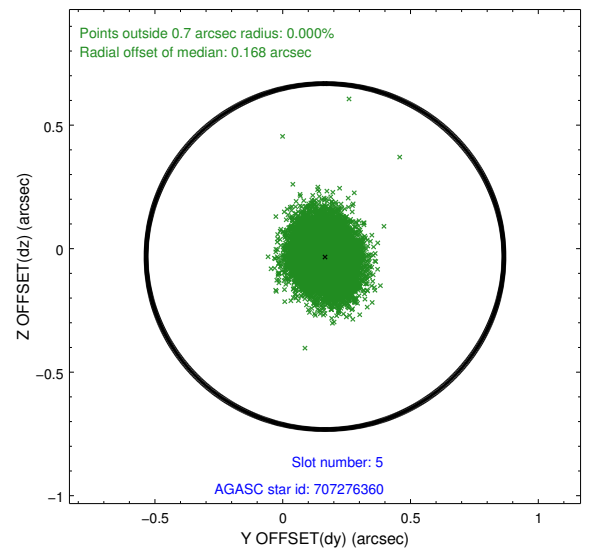
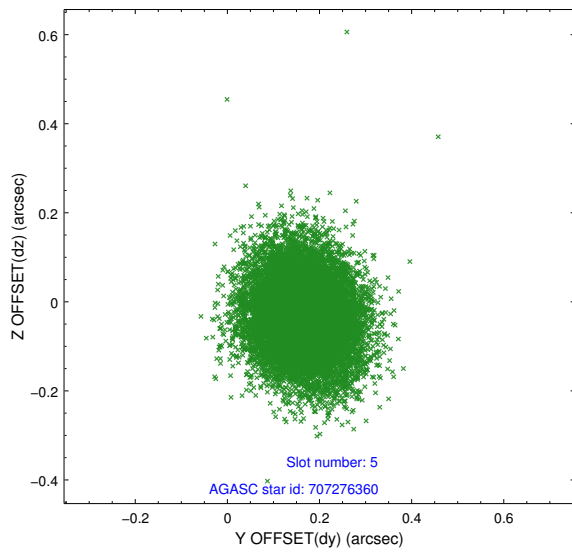
### 2.4.1 Slot 3



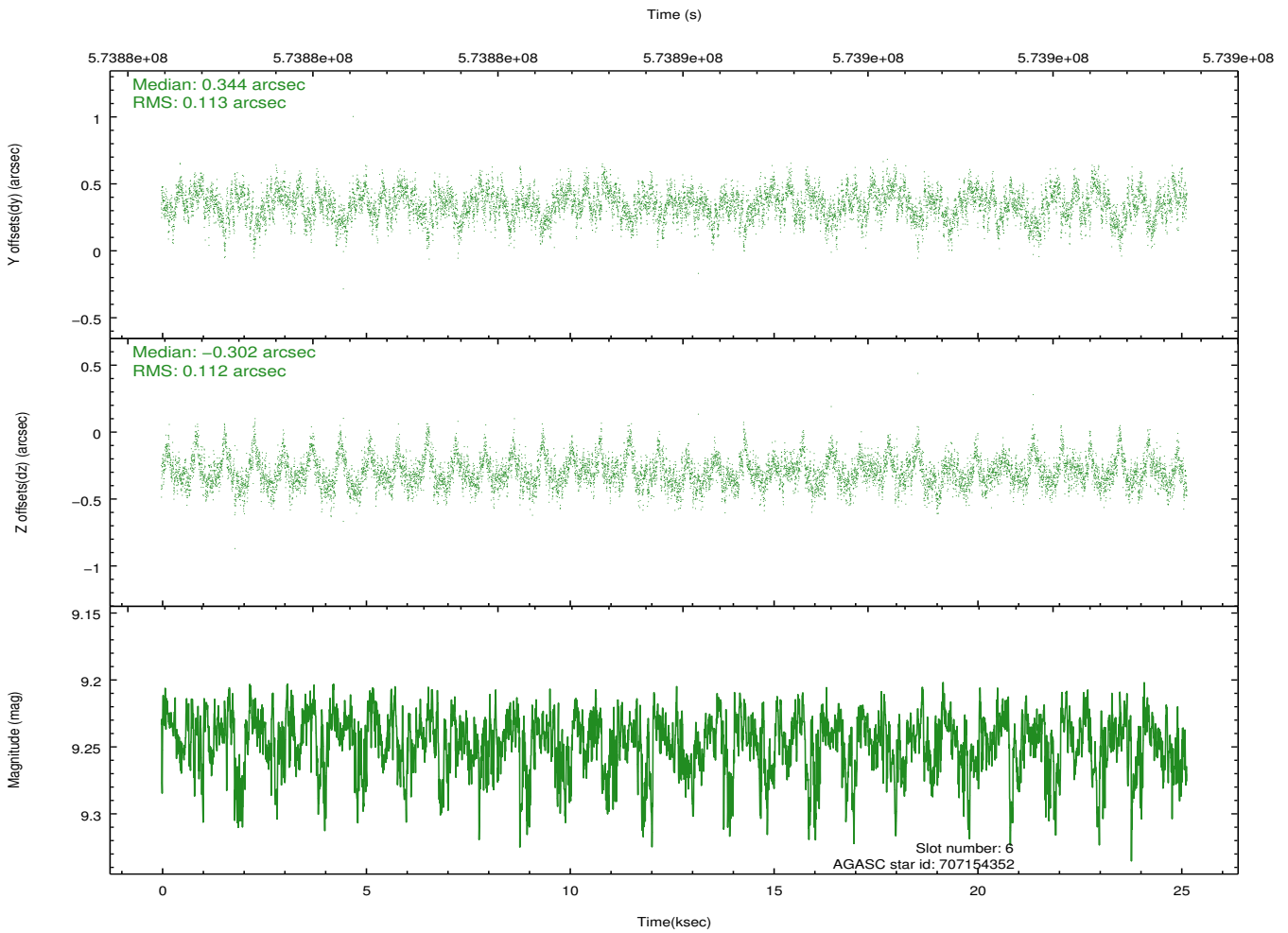
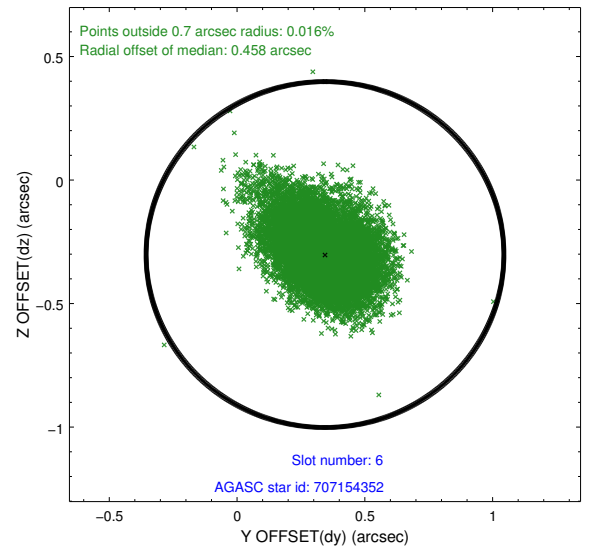
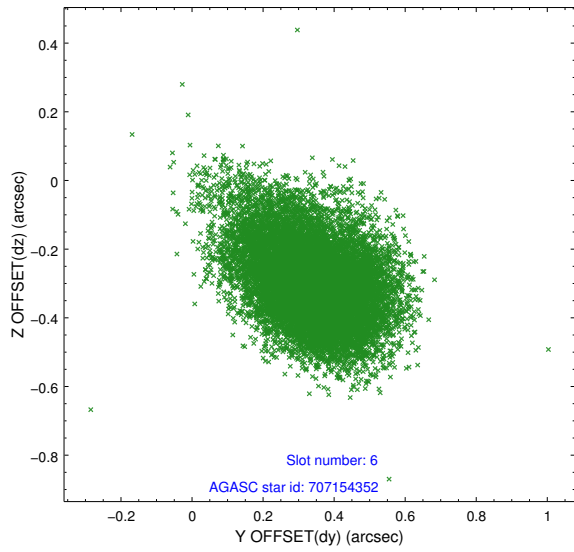
## 2.4.2 Slot 4



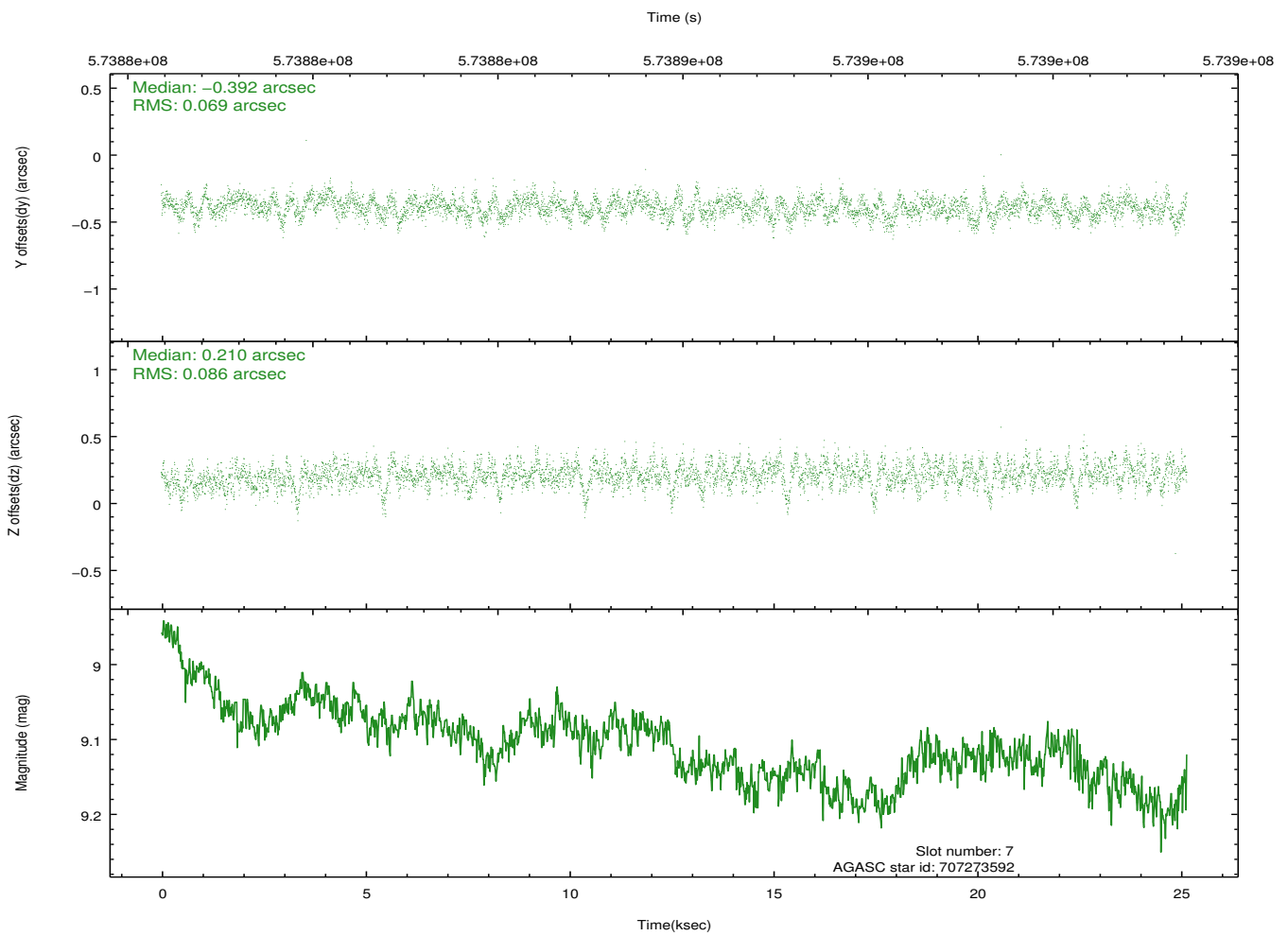
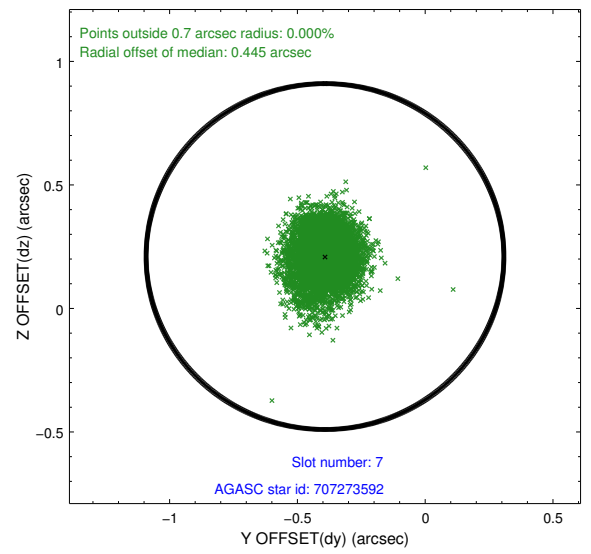
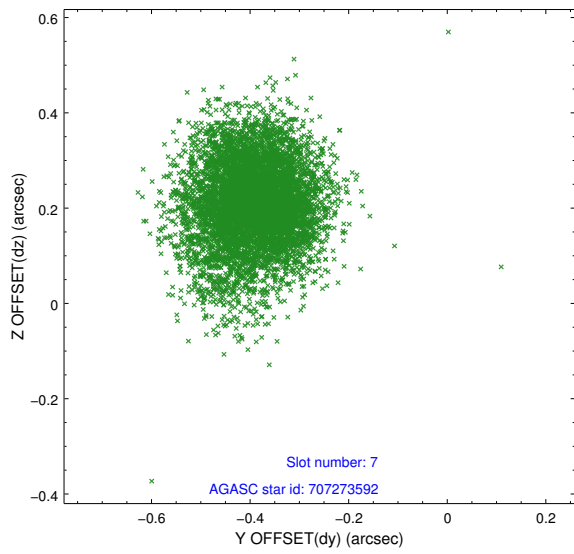
### 2.4.3 Slot 5



## 2.4.4 Slot 6

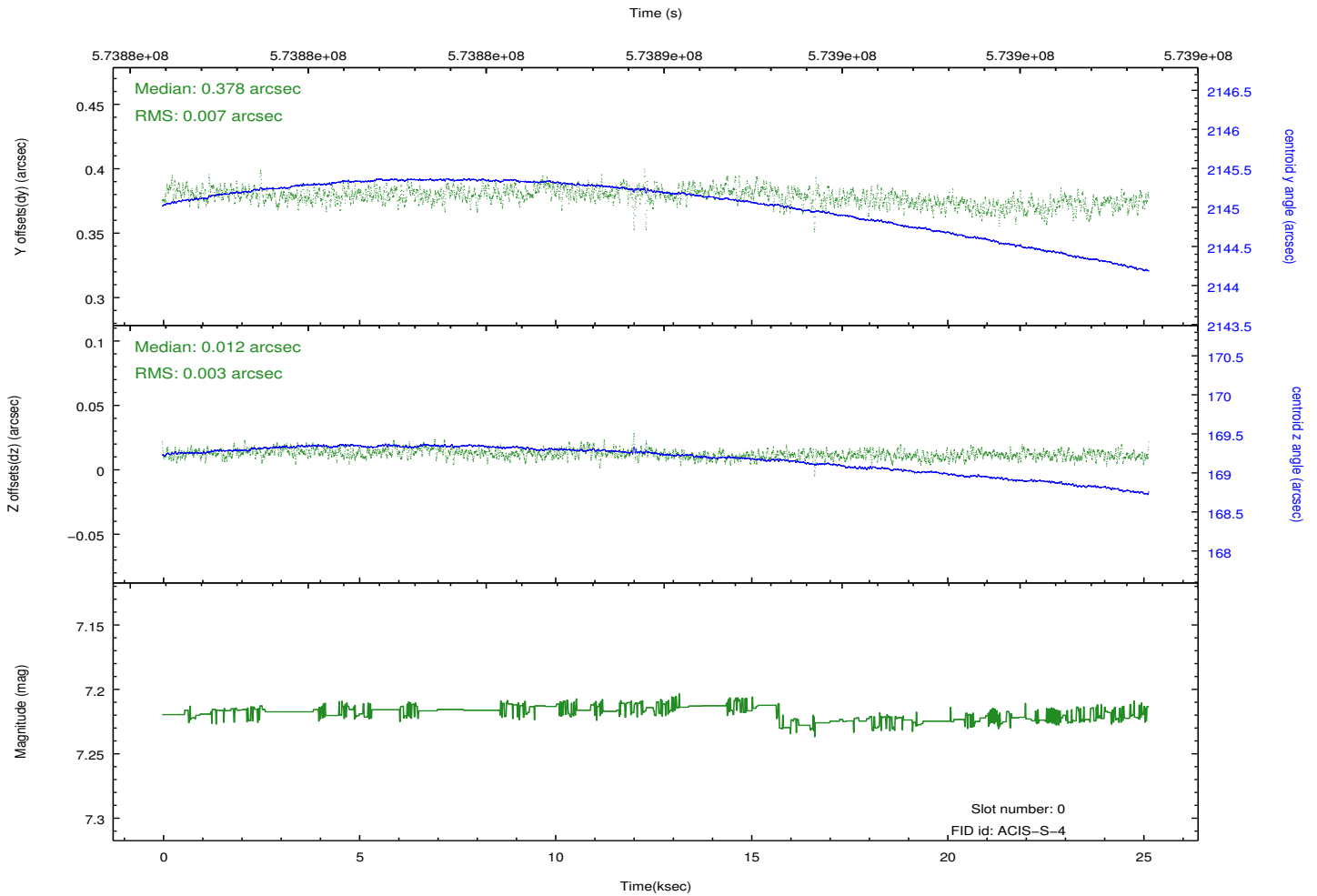
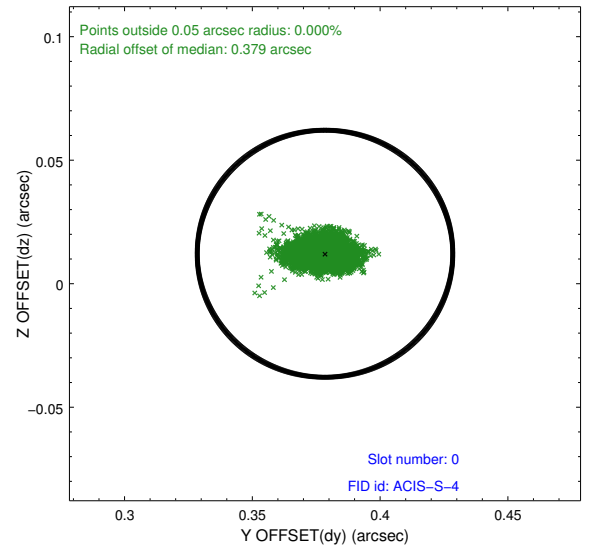
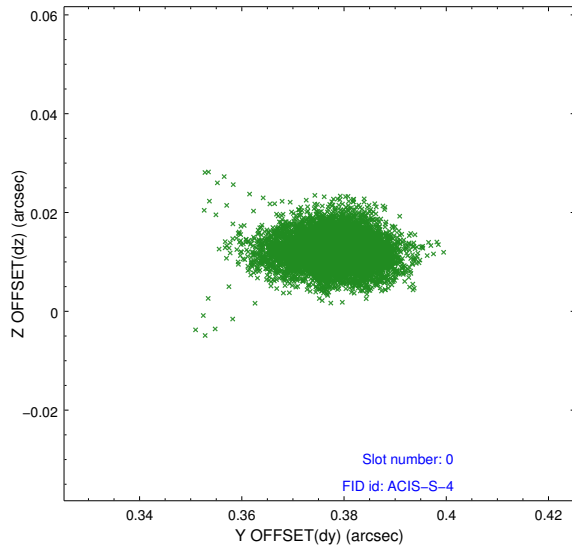


## 2.4.5 Slot 7

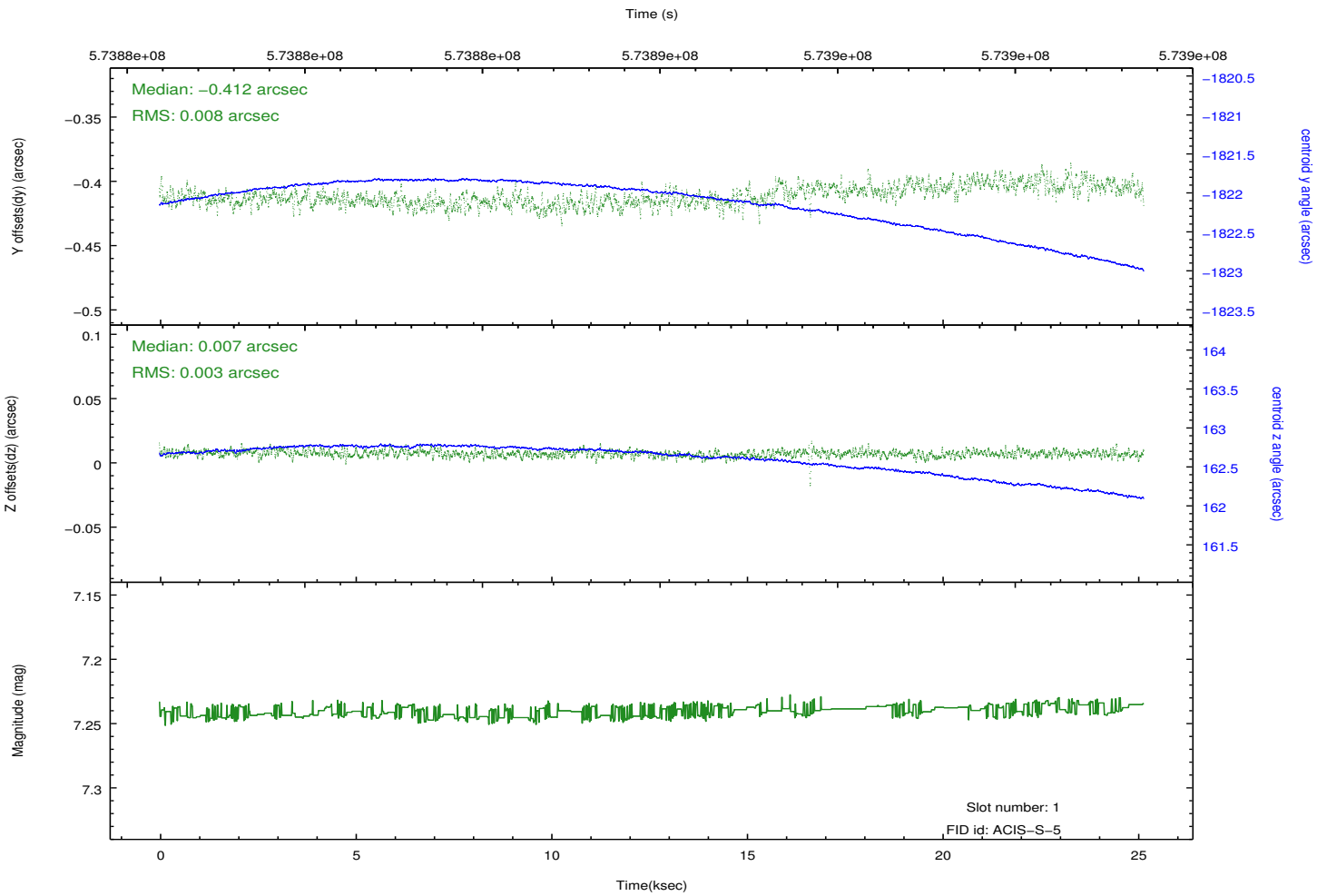
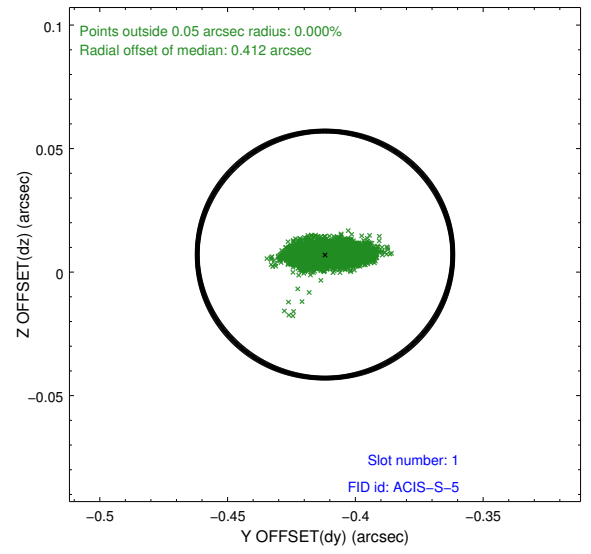
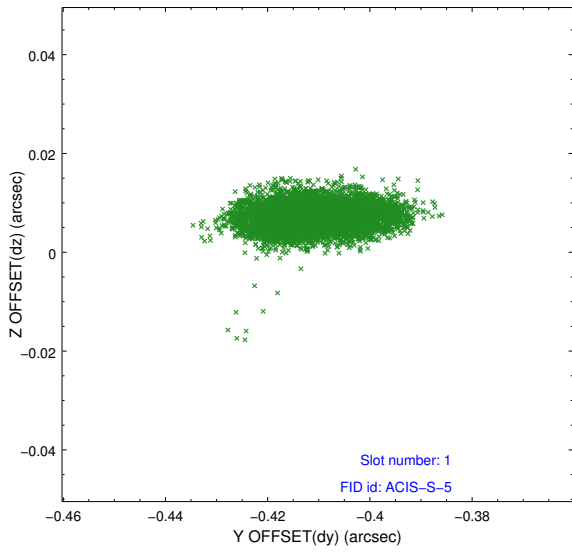


## 2.5 FID Slots

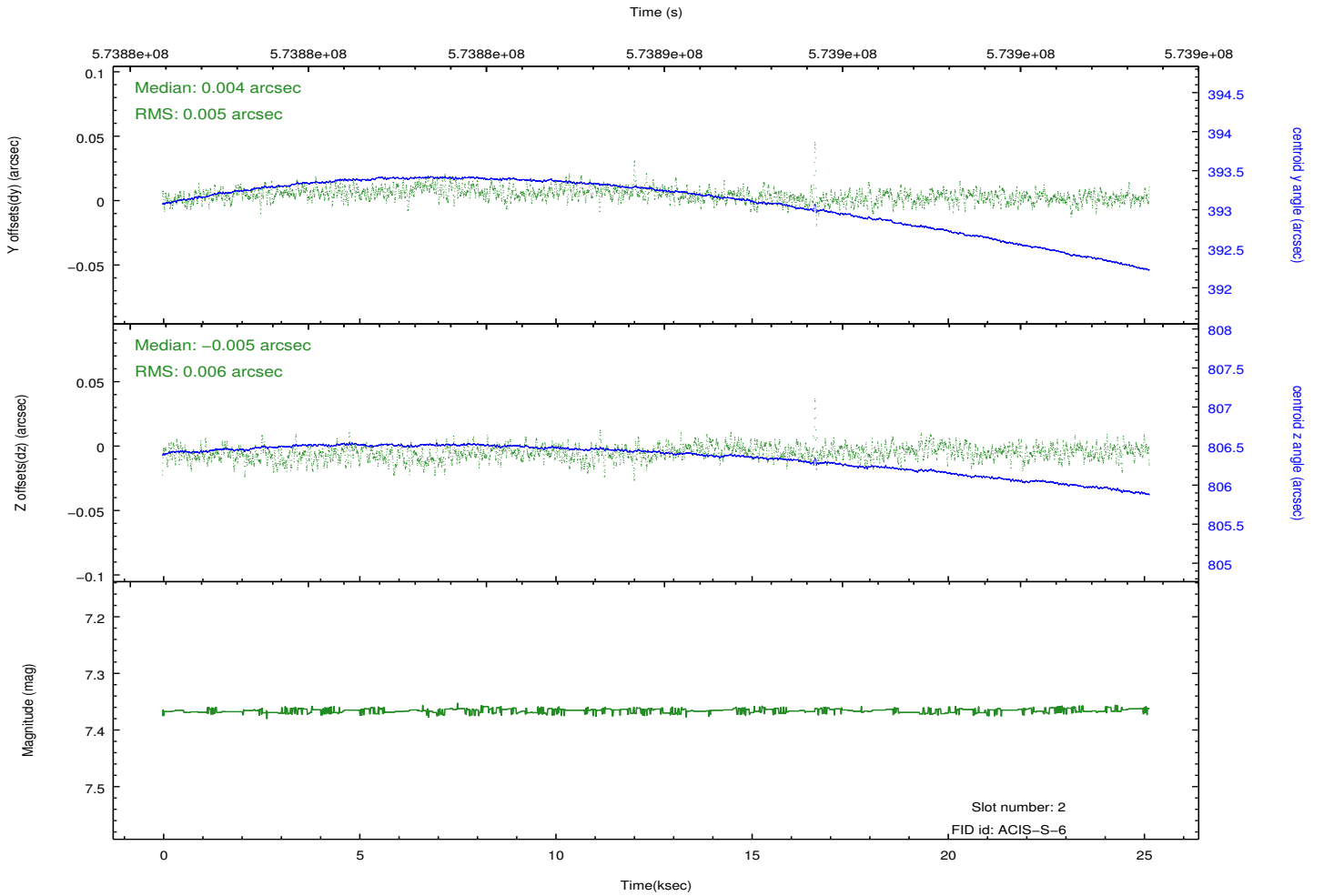
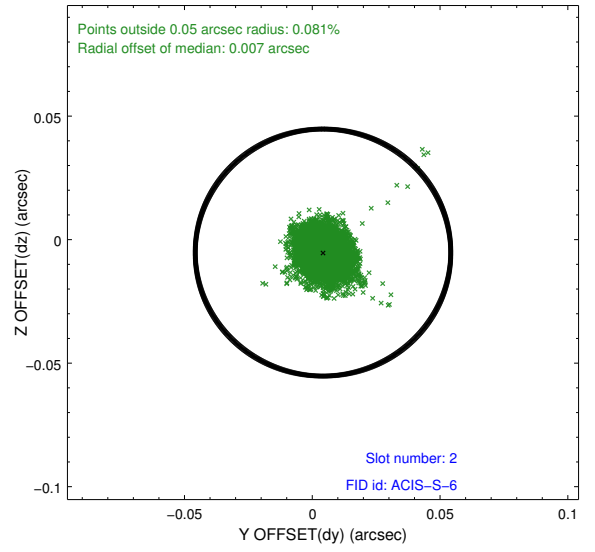
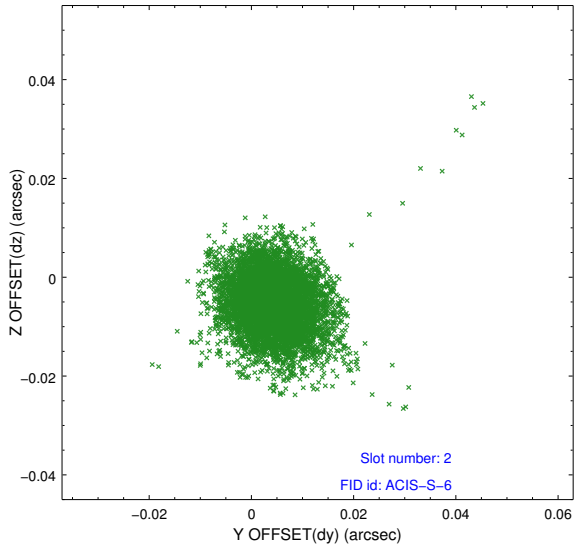
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## **A Summary**

### **A.1 Status**

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.103555706859

### **A.2 Comments**