

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6122 - L2 Version 3  
Chandra X-Ray Center

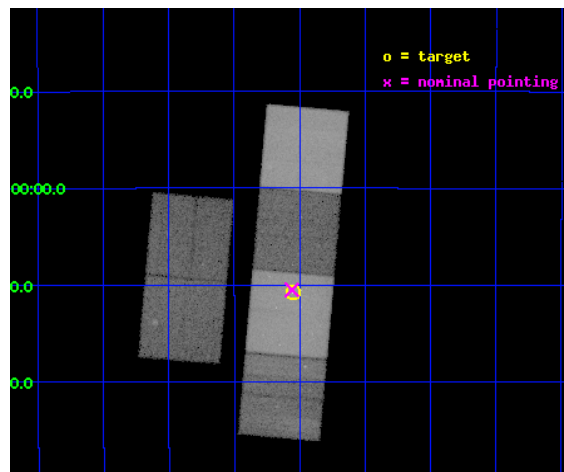
L2 Processing Date : Dec 23 2012

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# 1 Front

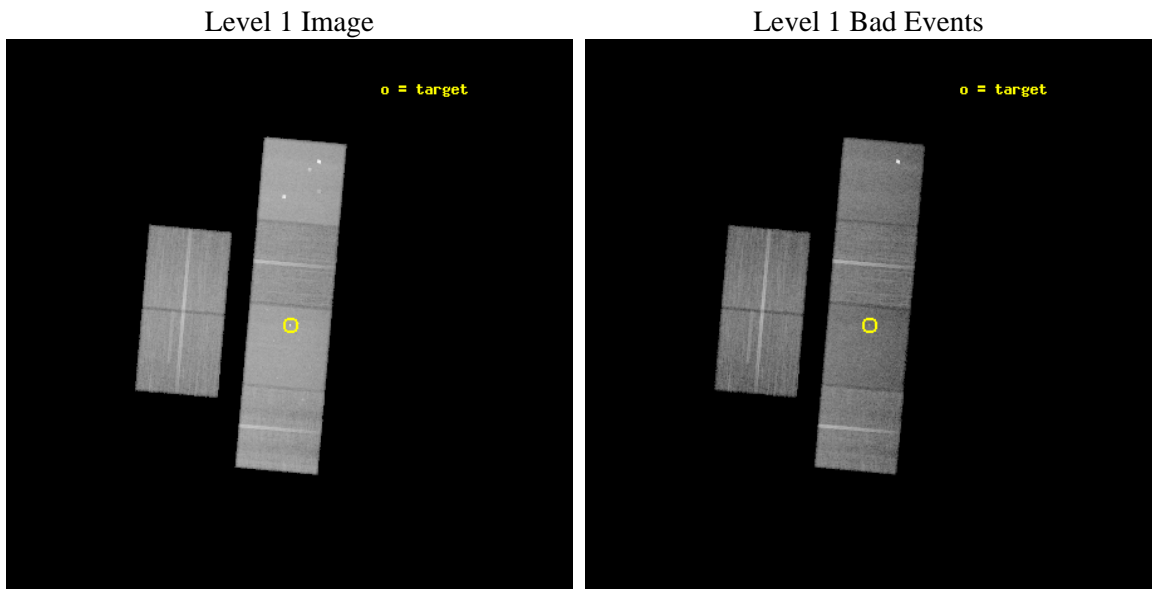
seq_num	200369	Sequence number
obs_id	6122	Observation id
title	Planet-Induced Activity Enhancements in the HD 179949 System	Propo
observer	Dr. Steven Saar	Principal investigator
object	HD 179949	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.888333	Observer's specified target RA [deg]
dec_targ	-24.179361	Observer's specified target Dec [deg]
ra_nom	288.88978743609	Nominal RA [deg]
dec_nom	-24.175191513461	Nominal Dec [deg]
roll_nom	95.048007173503	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32165.375182241	Sum of GTIs [s]
livetime	31758.07783402	Livetime [s]
ontime2	29950.634359032	Sum of GTIs [s]
ontime3	30142.992857367	Sum of GTIs [s]
ontime5	32204.267075777	Sum of GTIs [s]
ontime6	30130.028807044	Sum of GTIs [s]
ontime7	32165.375182241	Sum of GTIs [s]
ontime8	30311.525346845	Sum of GTIs [s]
l2events	499222	Number of level 2 events



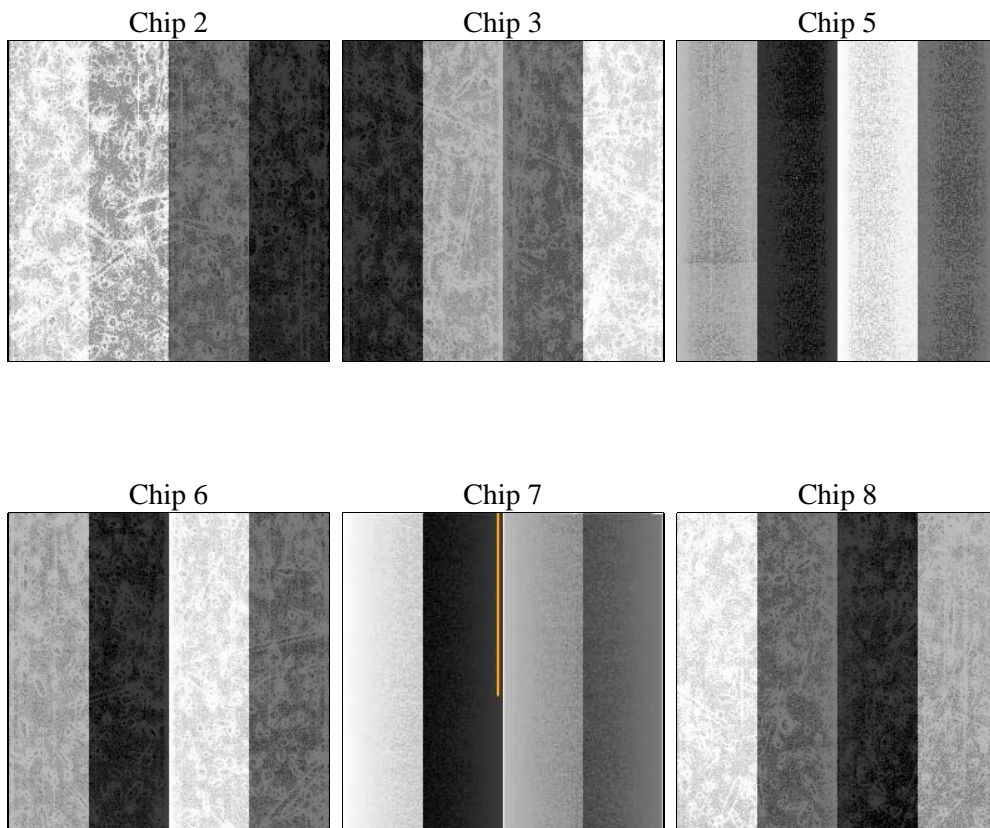
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32225.326000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	32165.375182241	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime2	29950.634359032	Sum of GTIs [s]
date	2012-12-23T19:26:49	Date and time of file creation	ontime3	30142.992857367	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	32204.267075777	Sum of GTIs [s]
			ontime6	30130.028807044	Sum of GTIs [s]
			ontime7	32165.375182241	Sum of GTIs [s]
			ontime8	30311.525346845	Sum of GTIs [s]
			l1events	1515594	Number of level 1 events

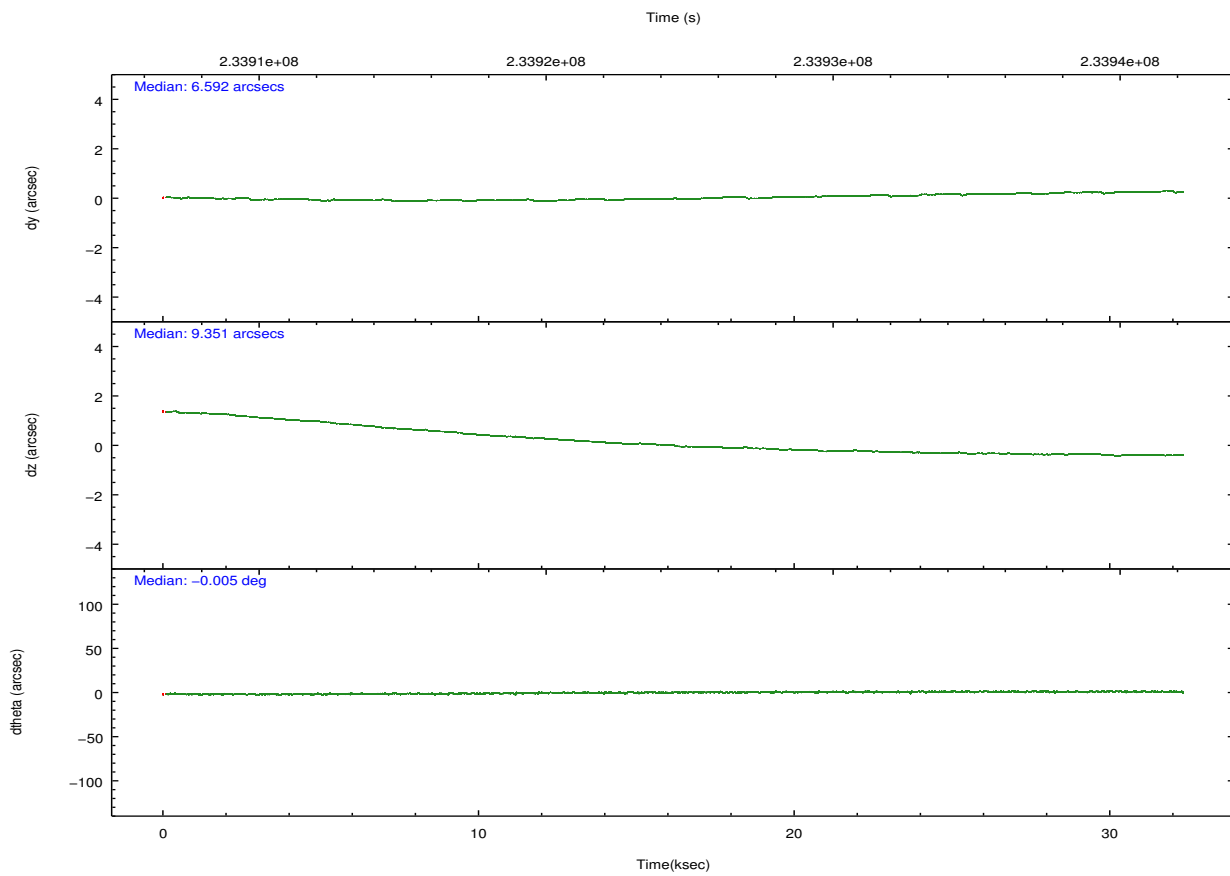
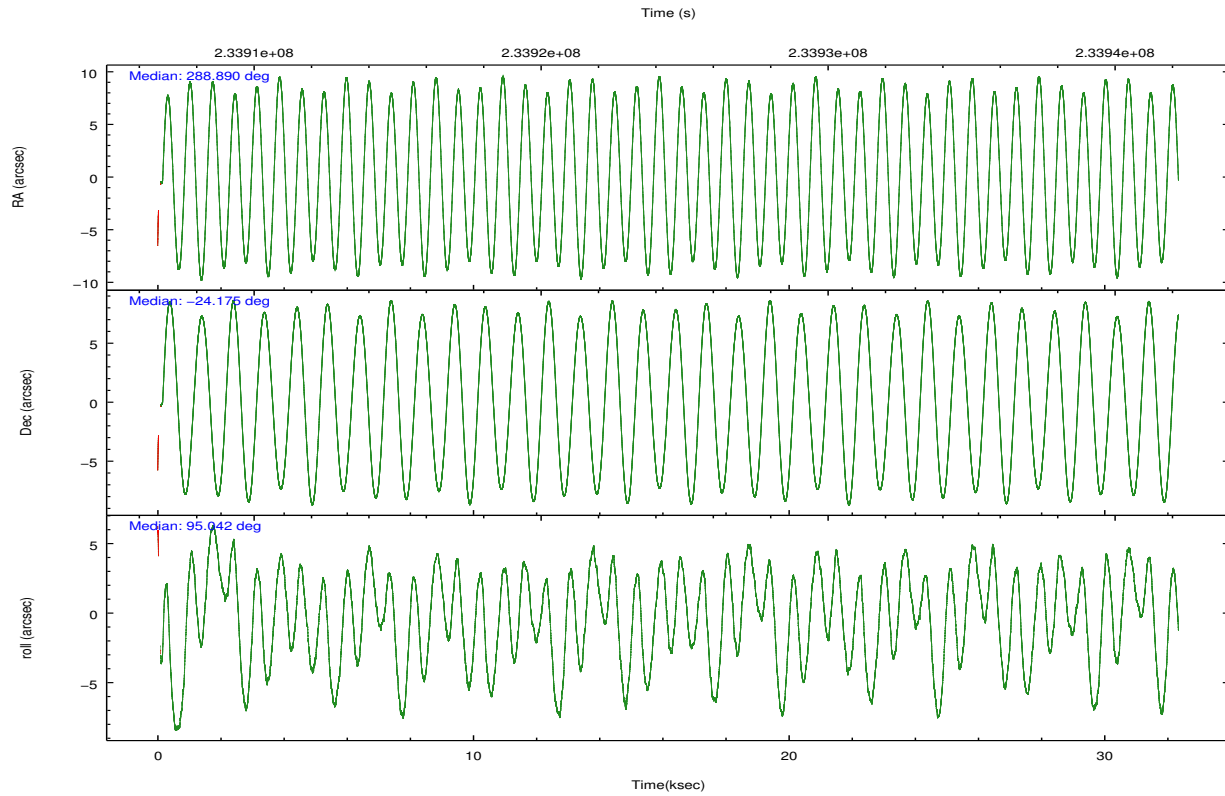
### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	204162	192006	351370	202843	300758	264455	grade 0 events	16991	18026	25029	20517	19160	39920
rejected events	171287	157648	154603	163862	124705	179649		8%	9%	7%	10%	6%	15%
rejected %	83%	82%	44%	80%	41%	67%	grade 1 events	168	167	290	168	197	295
								0%	0%	0%	0%	0%	0%
							grade 2 events	6088	5822	59189	6430	33819	15532
								2%	3%	16%	3%	11%	5%
							grade 3 events	2629	2748	9184	2974	15143	7089
								1%	1%	2%	1%	5%	2%
							grade 4 events	2610	2817	9058	2863	14772	6611
								1%	1%	2%	1%	4%	2%
							grade 5 events	6396	7176	24049	7524	23980	10621
								3%	3%	6%	3%	7%	4%
							grade 6 events	4857	5223	96271	6499	94793	16516
								2%	2%	27%	3%	31%	6%
							grade 7 events	164423	150027	128300	155868	98894	167871
								80%	78%	36%	76%	32%	63%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	288.907257	288.8897874360852	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.197286	-24.17519151346103	Alternating exposures requested	N	N
[deg] Pointing Roll	94.898541	95.04800717350349	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
Phase constraints	Y	Y			
[d] Phase period	3.092455	3.092455			
[d] Phase epoch (MJD)	52891.020000	52891.020000			
Phase start	0.840000	0.840000			
Phase end	0.960000	0.960000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
[s] Observation start time (MET)	233908366.184000	233907153.9507			
Observation start date	2005-05-31T06:31:42	2005-05-31T06:12:33			
[s] Observation end time (MET)	233940591.184000	233940815.46474			
Observation end date	2005-05-31T15:28:47	2005-05-31T15:33:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect

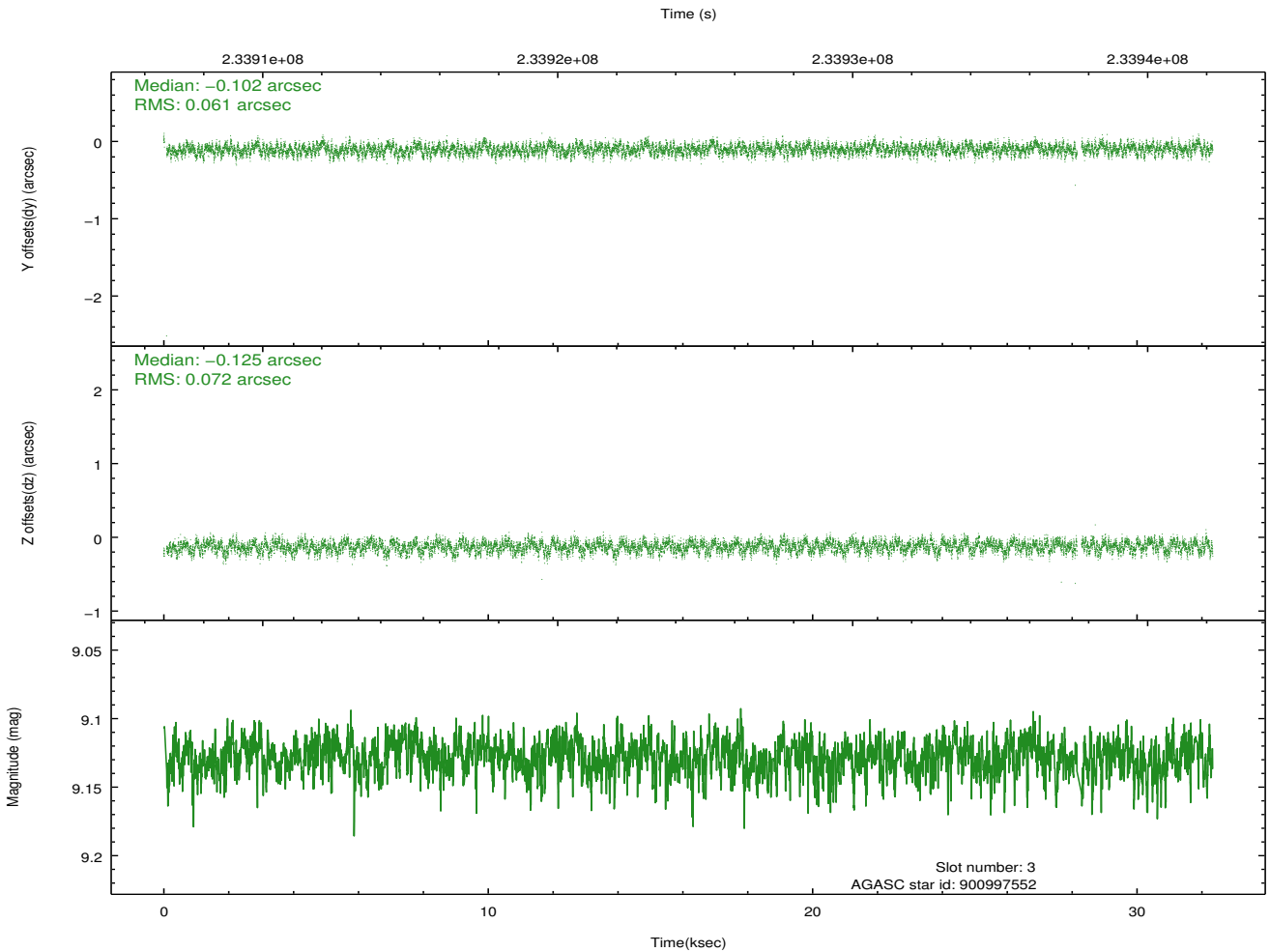
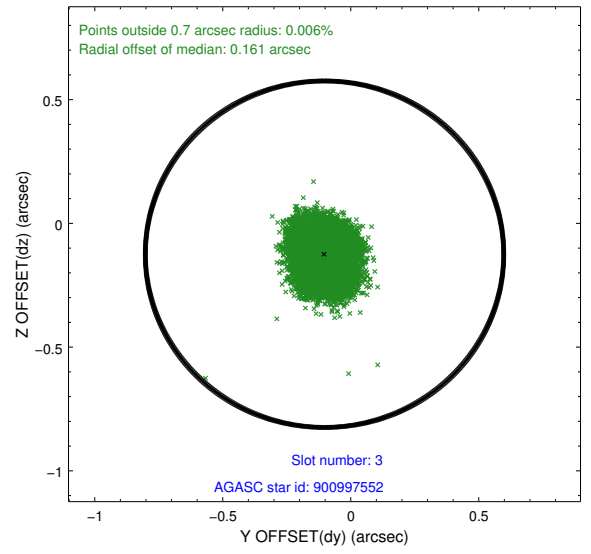
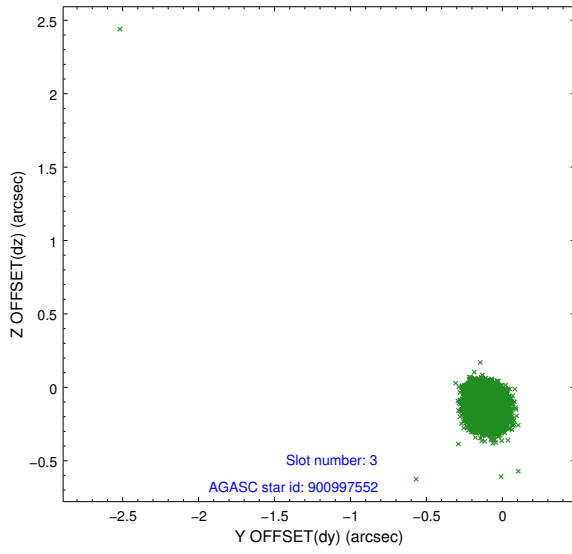


### Slot Statistics

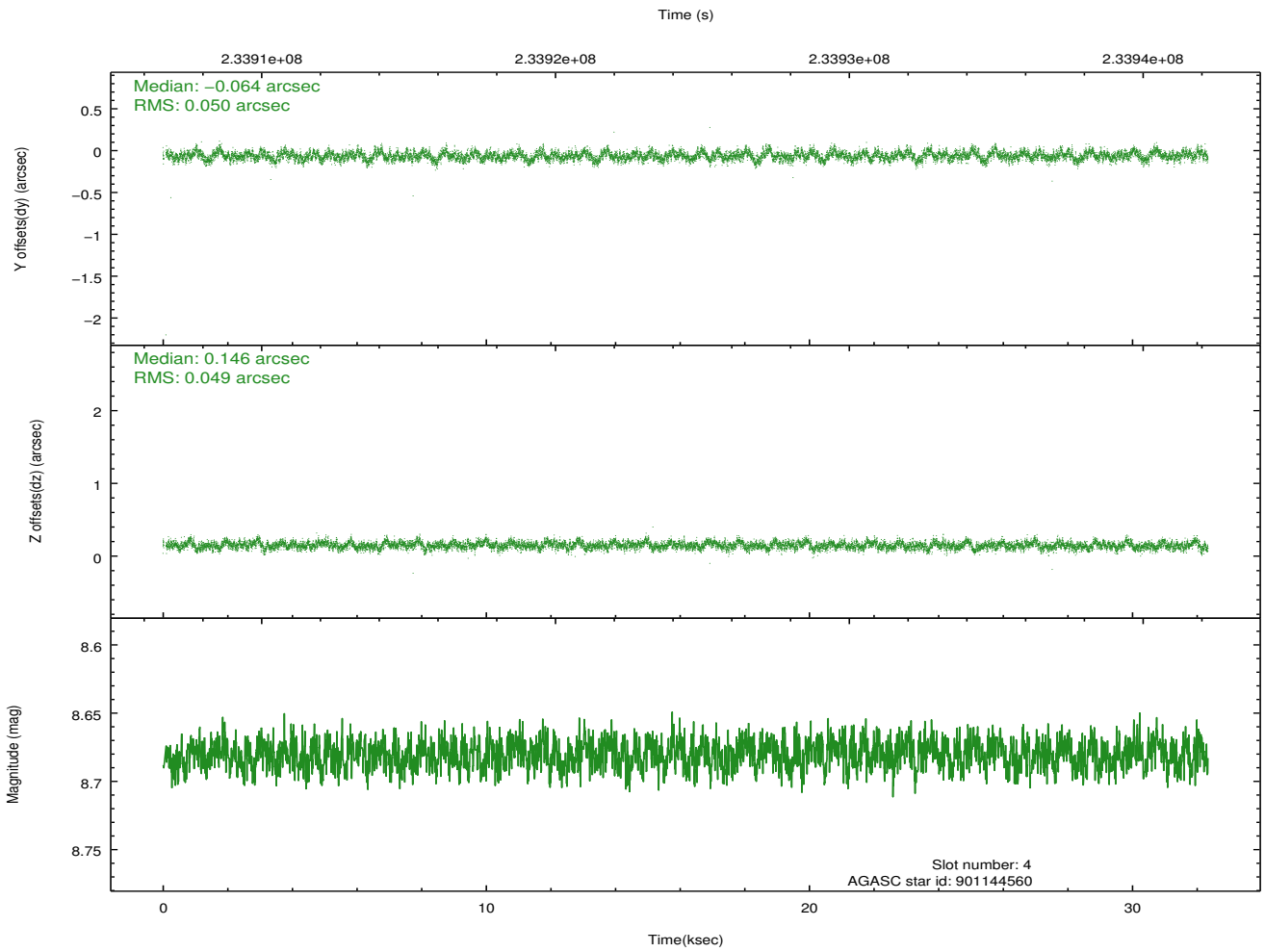
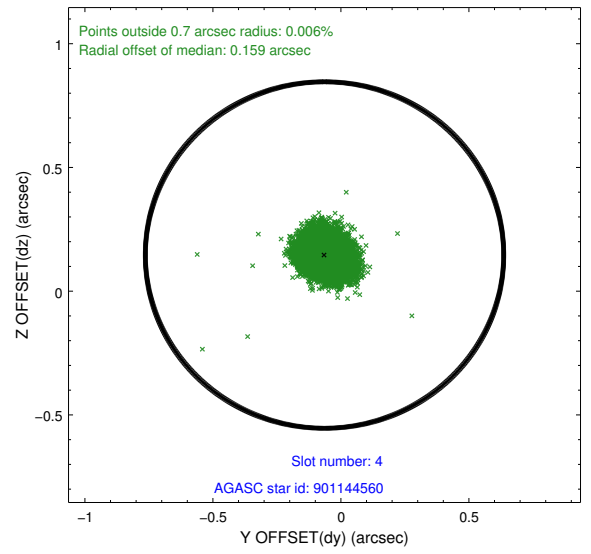
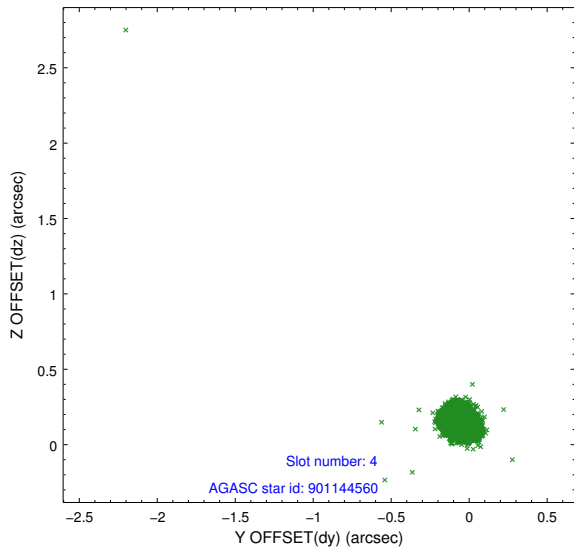
	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-S-2	7.10	7873	-0.052	-0.038	0.017
	FID	ACIS-S-4	7.20	7873	0.085	0.035	0.007
	FID	ACIS-S-5	7.23	7872	-0.063	0.013	0.017
	GUIDE	900997552	9.13	15673	-0.102	-0.125	0.097
	GUIDE	901144560	8.68	15741	-0.064	0.146	0.069
	GUIDE	901514880	8.92	15740	0.108	-0.169	0.074
	GUIDE	901647096	9.15	15737	0.059	0.146	0.080
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

## 2.4 Star Slots

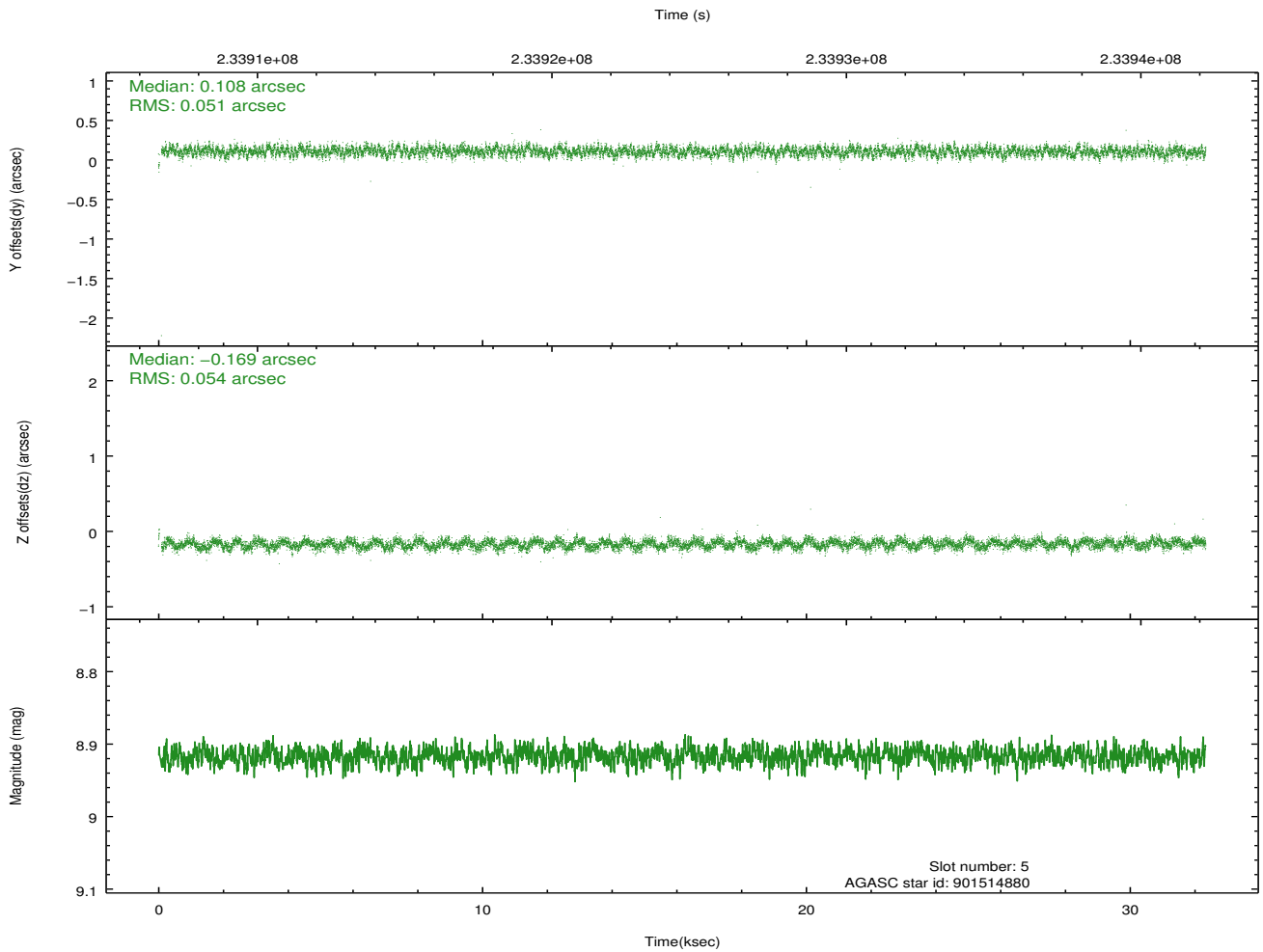
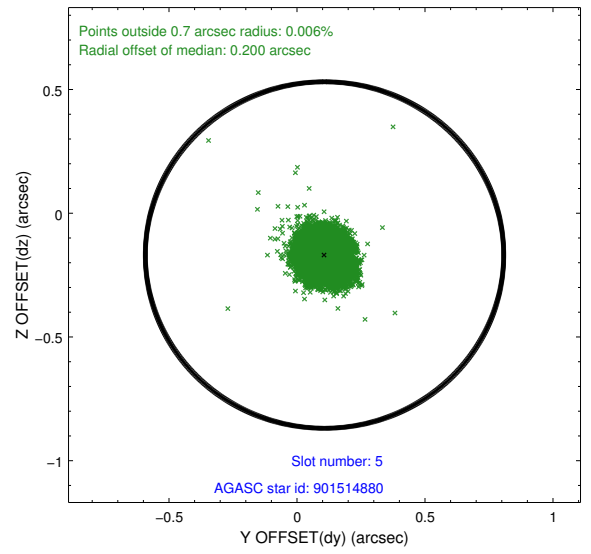
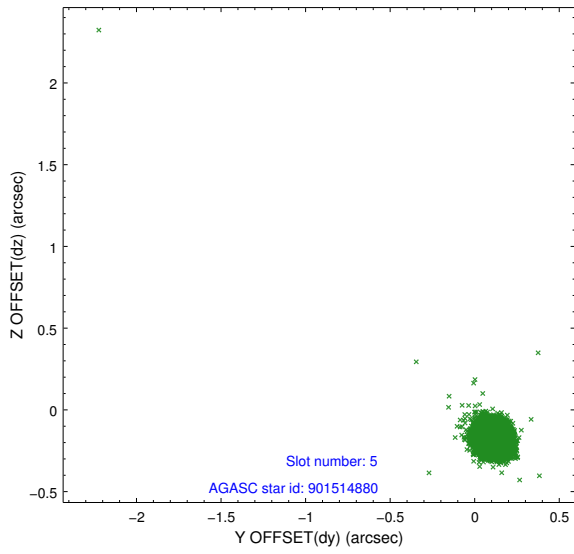
### 2.4.1 Slot 3



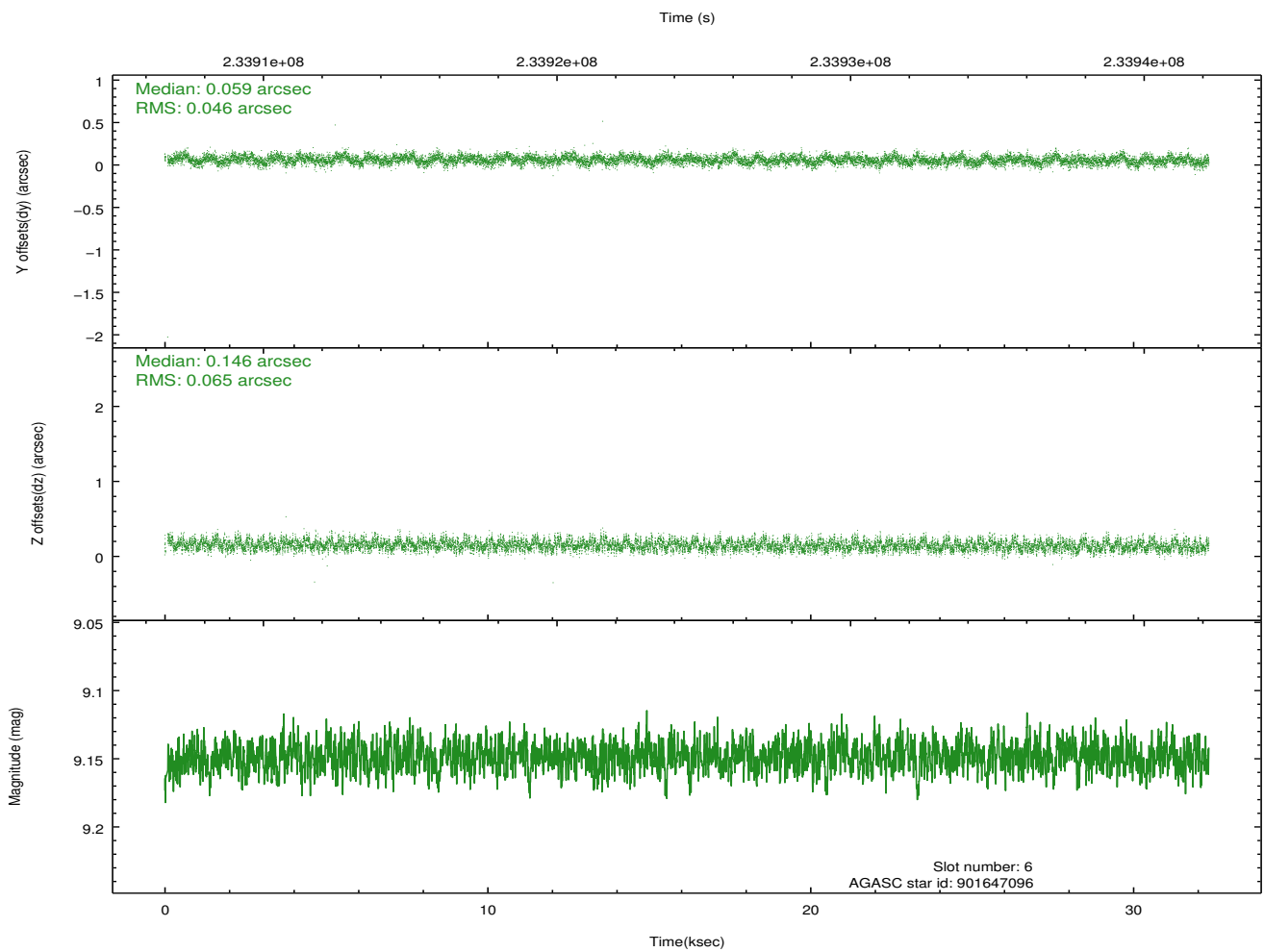
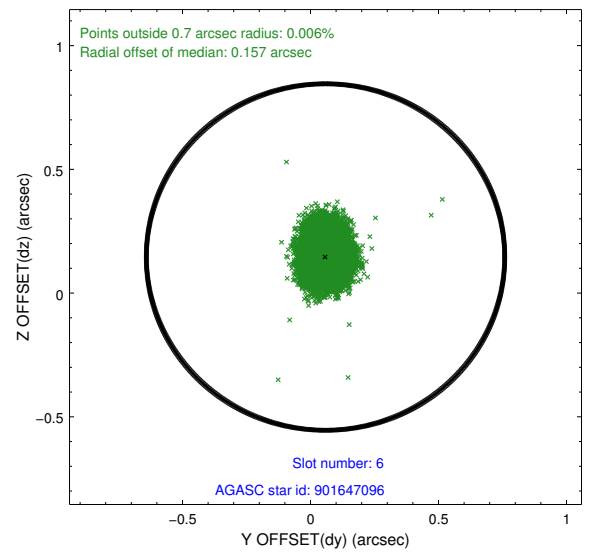
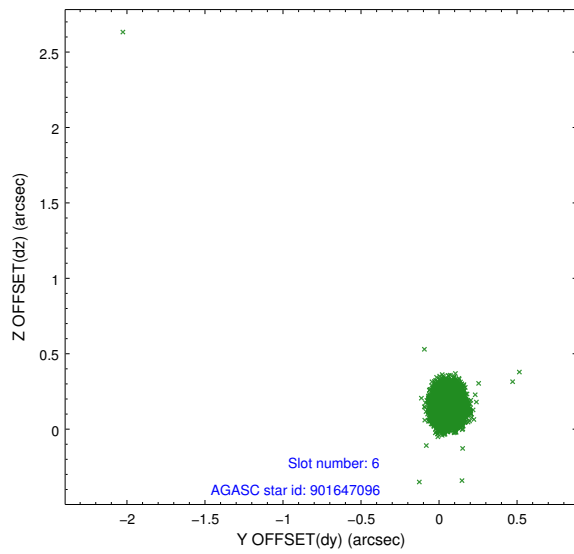
### 2.4.2 Slot 4



### 2.4.3 Slot 5

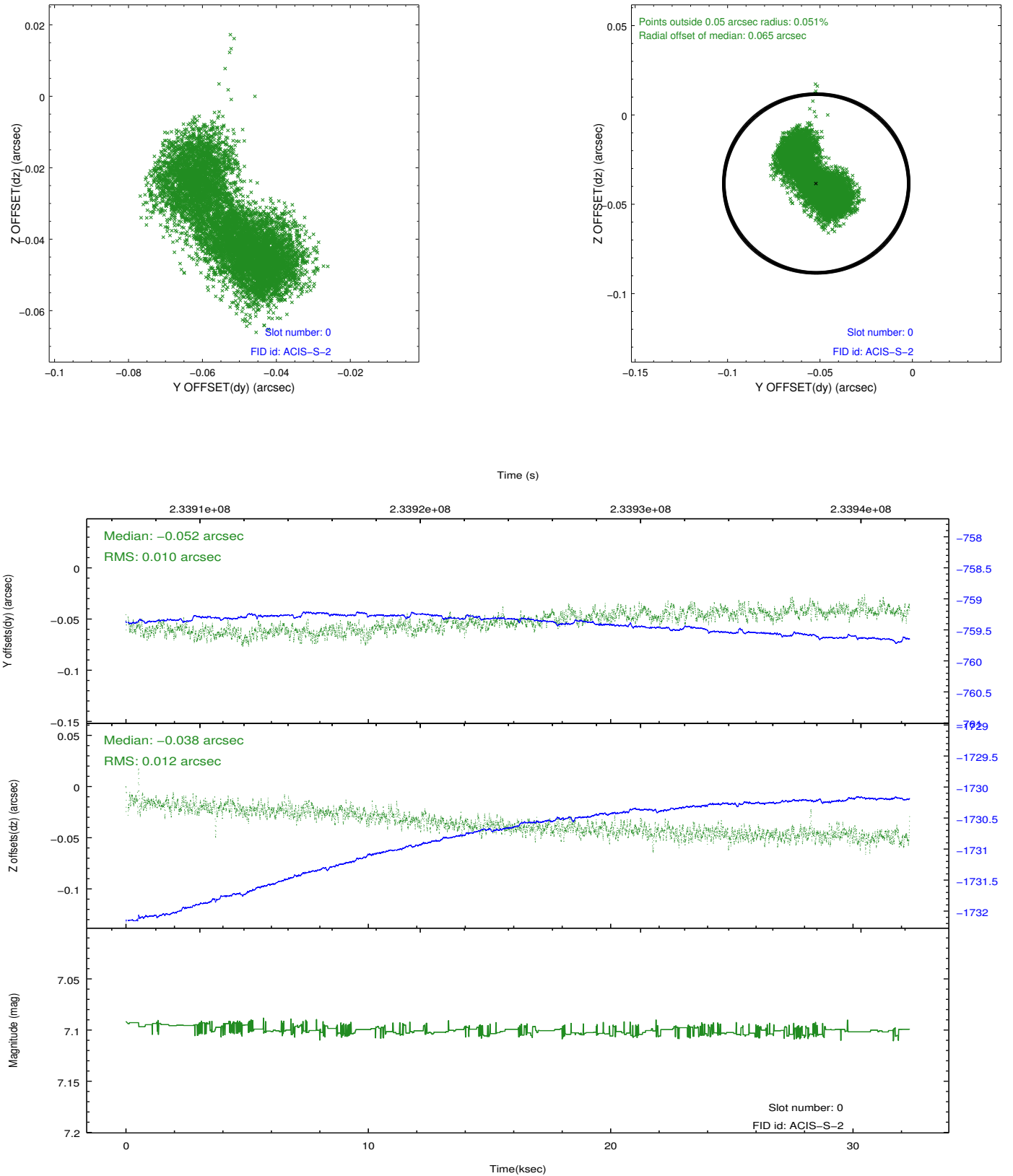


## 2.4.4 Slot 6

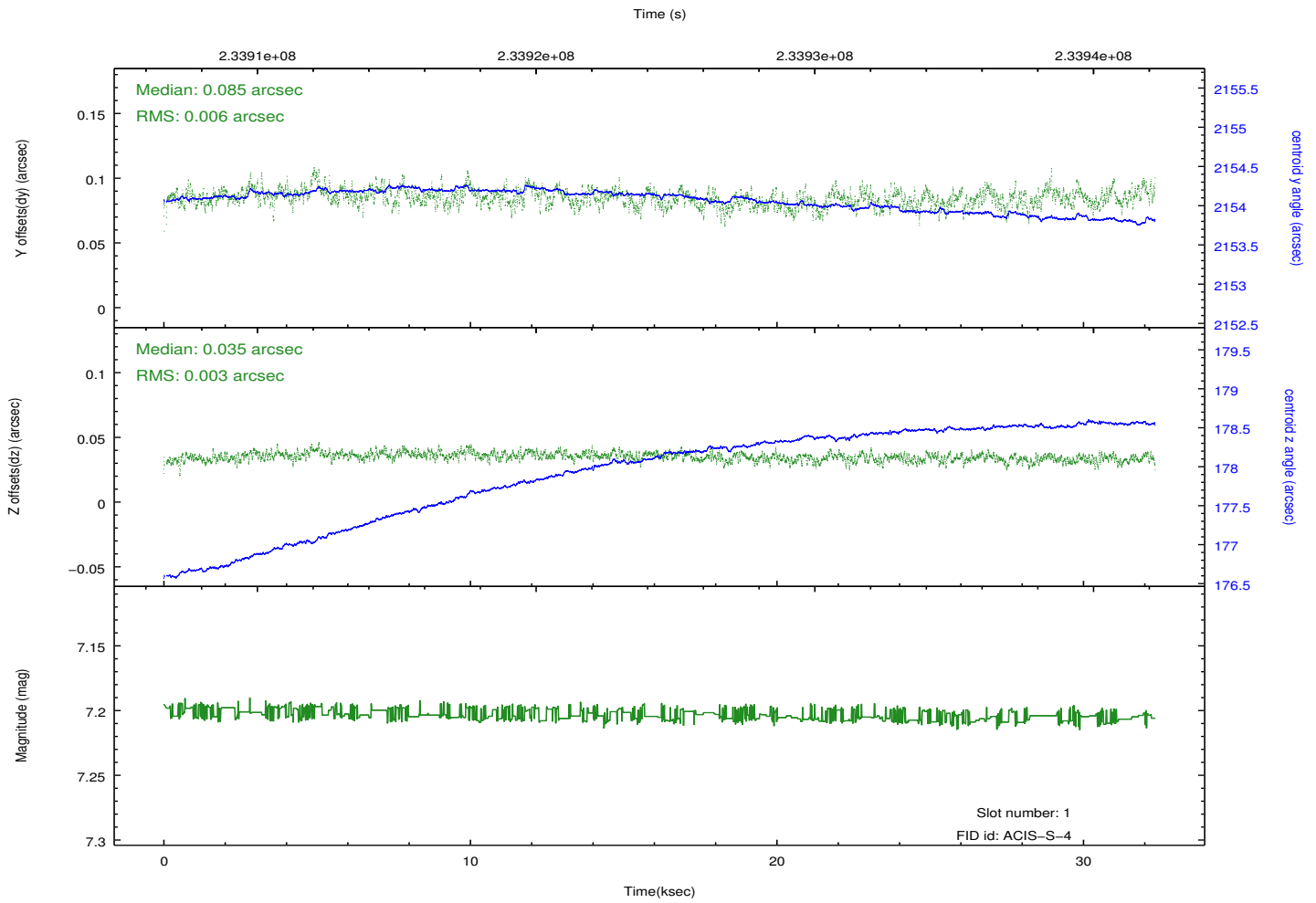
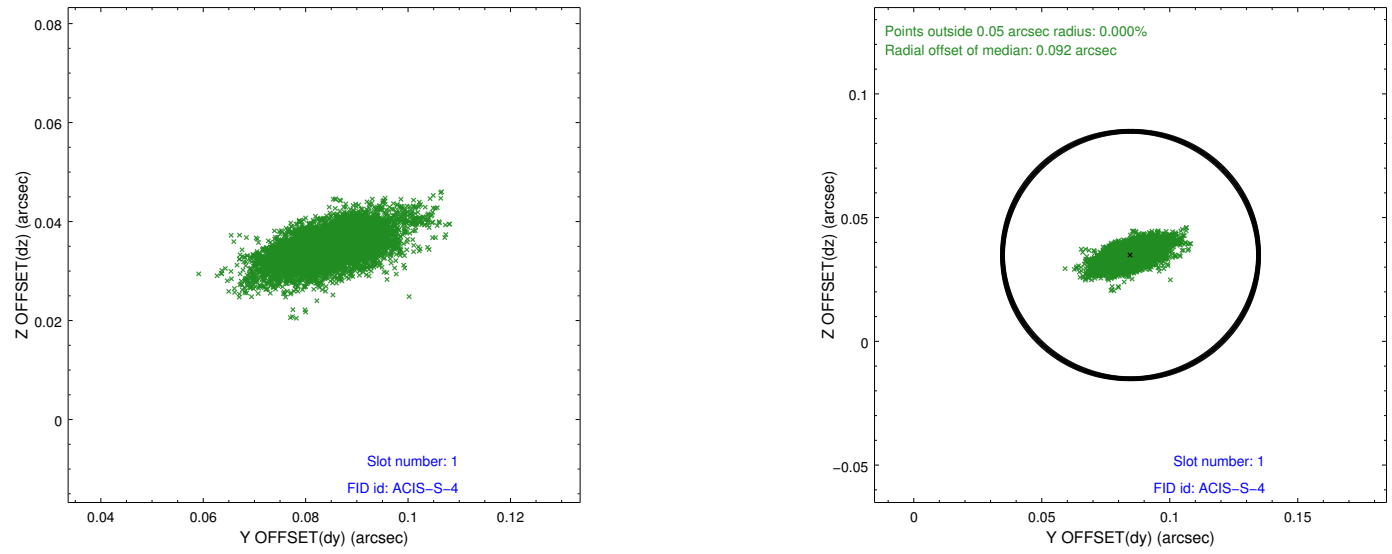


## 2.5 FID Slots

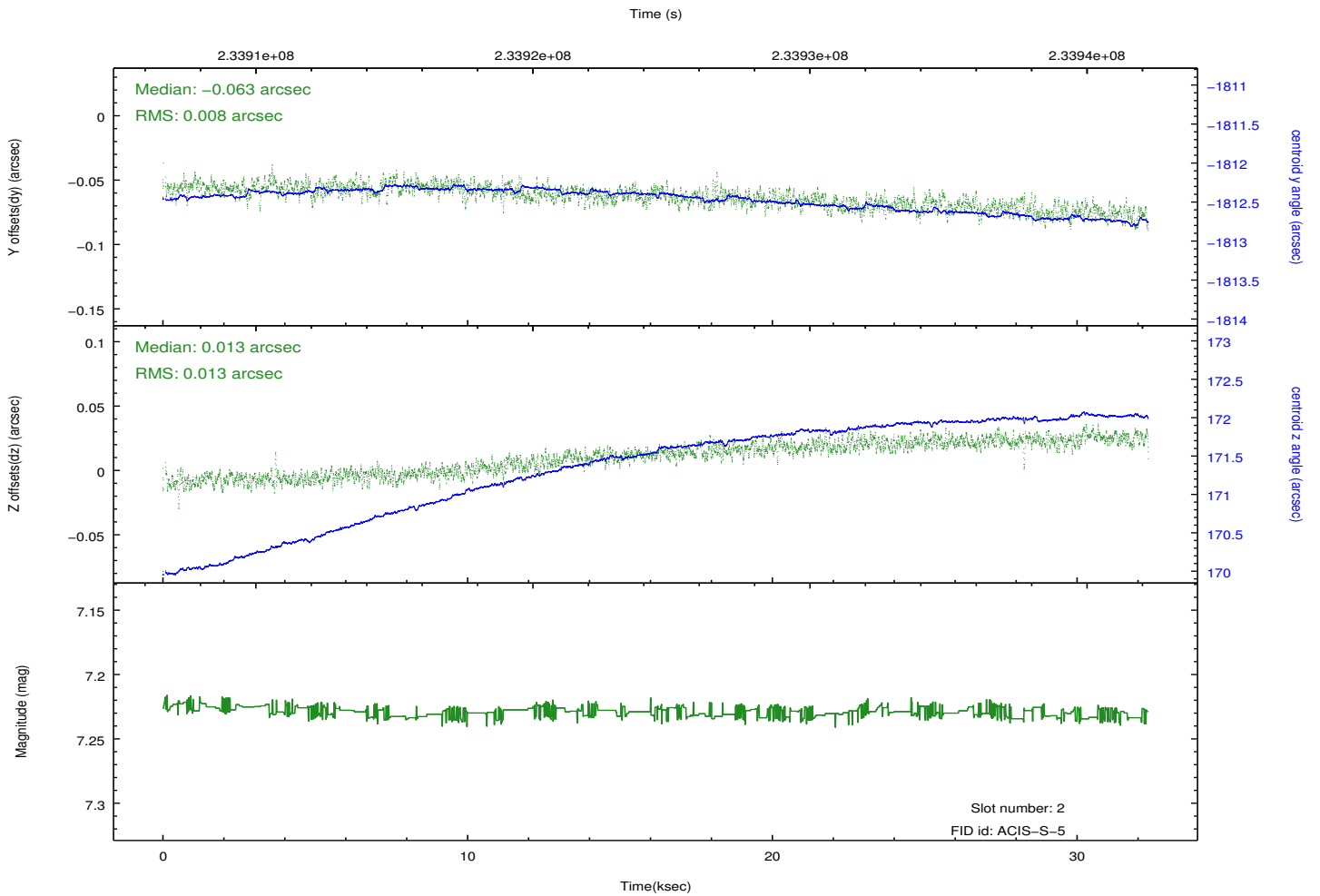
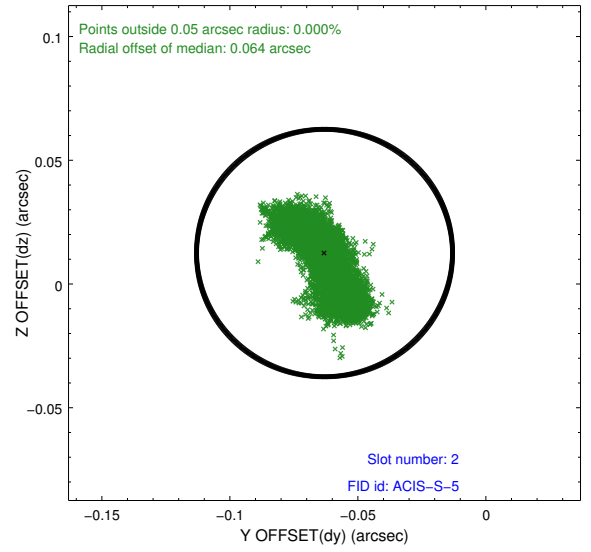
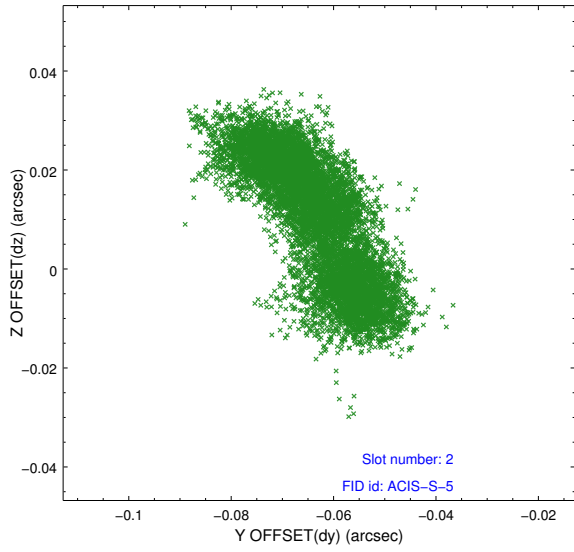
### 2.5.1 Slot 0



## 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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.16537

## A.2 Comments

Joint Proposal: HST. Monitor constraint met.