

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6120 - L2 Version 3  
Chandra X-Ray Center

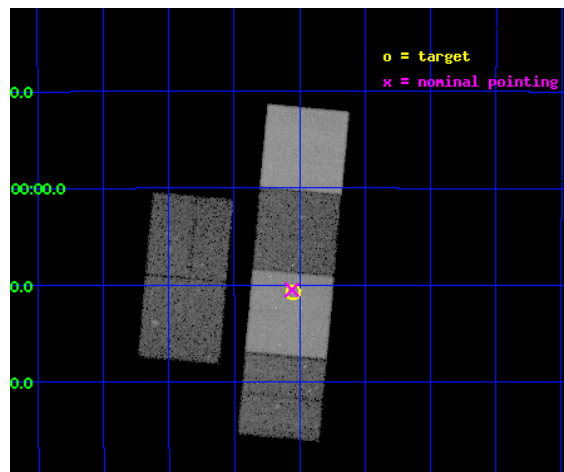
L2 Processing Date : Dec 23 2012

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# 1 Front

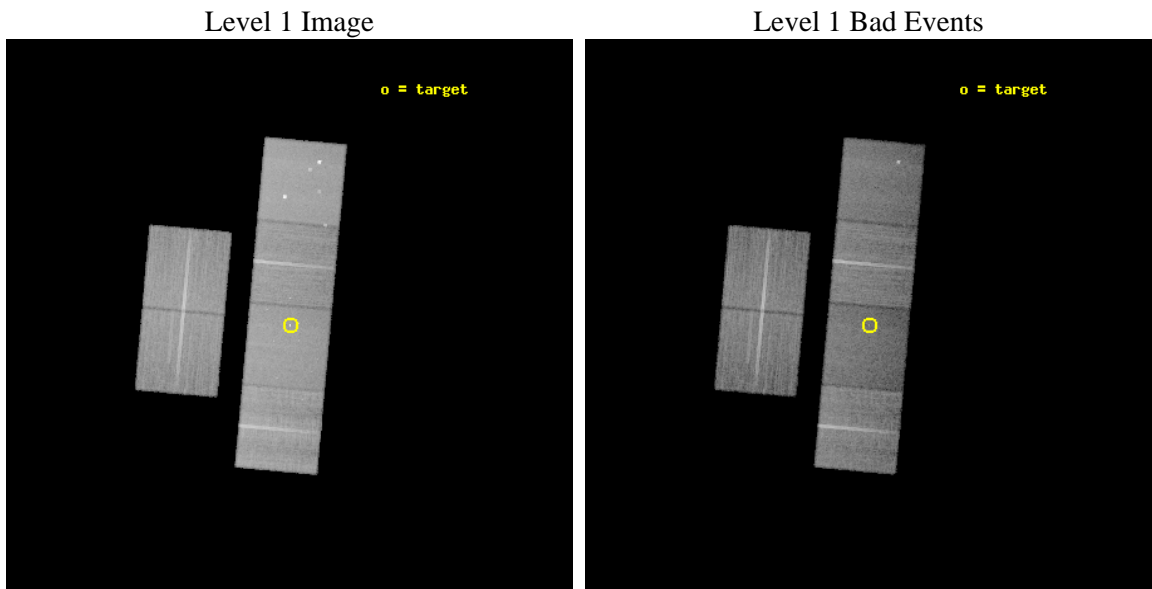
seq_num	200367	Sequence number
obs_id	6120	Observation id
title	Planet-Induced Activity Enhancements in the HD 179949 System	Propo
observer	Dr. Steven Saar	Principal investigator
object	HD 179949	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.888333	Observer's specified target RA [deg]
dec_targ	-24.179361	Observer's specified target Dec [deg]
ra_nom	288.88977348351	Nominal RA [deg]
dec_nom	-24.175191682337	Nominal Dec [deg]
roll_nom	95.210557307279	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30025.599888146	Sum of GTIs [s]
livetime	29645.397663117	Livetime [s]
ontime2	30022.358917743	Sum of GTIs [s]
ontime3	30025.599888146	Sum of GTIs [s]
ontime5	30025.599888146	Sum of GTIs [s]
ontime6	30025.599888146	Sum of GTIs [s]
ontime7	30025.599888146	Sum of GTIs [s]
ontime8	30025.599888146	Sum of GTIs [s]
l2events	272009	Number of level 2 events



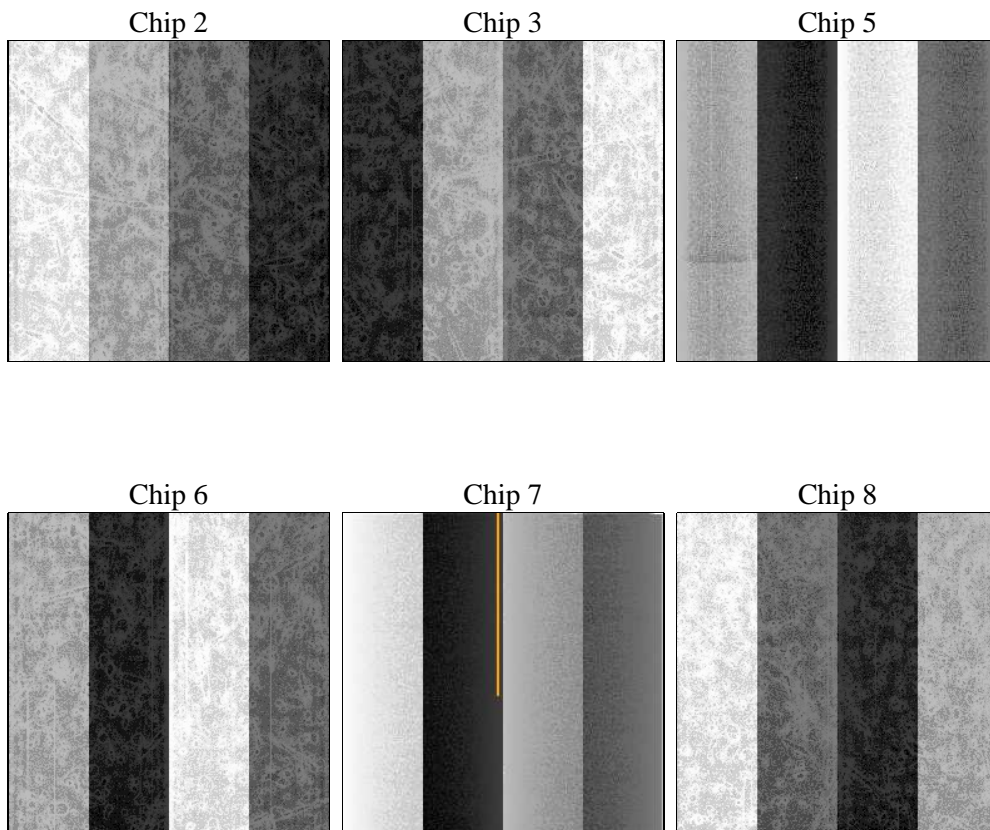
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	30025.599888146	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	30022.358917743	Sum of GTIs [s]
date	2012-12-23T19:16:19	Date and time of file creation	ontime3	30025.599888146	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	30025.599888146	Sum of GTIs [s]
			ontime6	30025.599888146	Sum of GTIs [s]
			ontime7	30025.599888146	Sum of GTIs [s]
			ontime8	30025.599888146	Sum of GTIs [s]
			l1events	1224584	Number of level 1 events

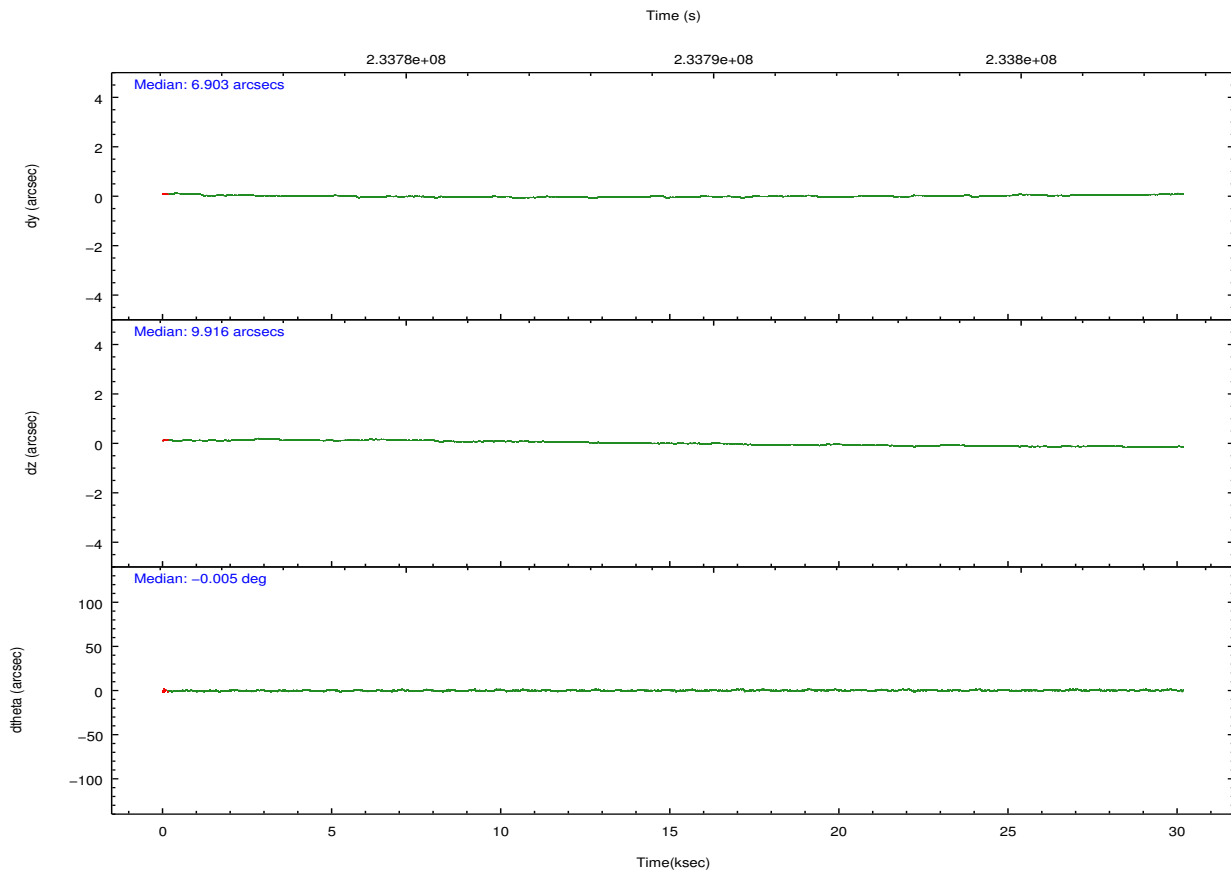
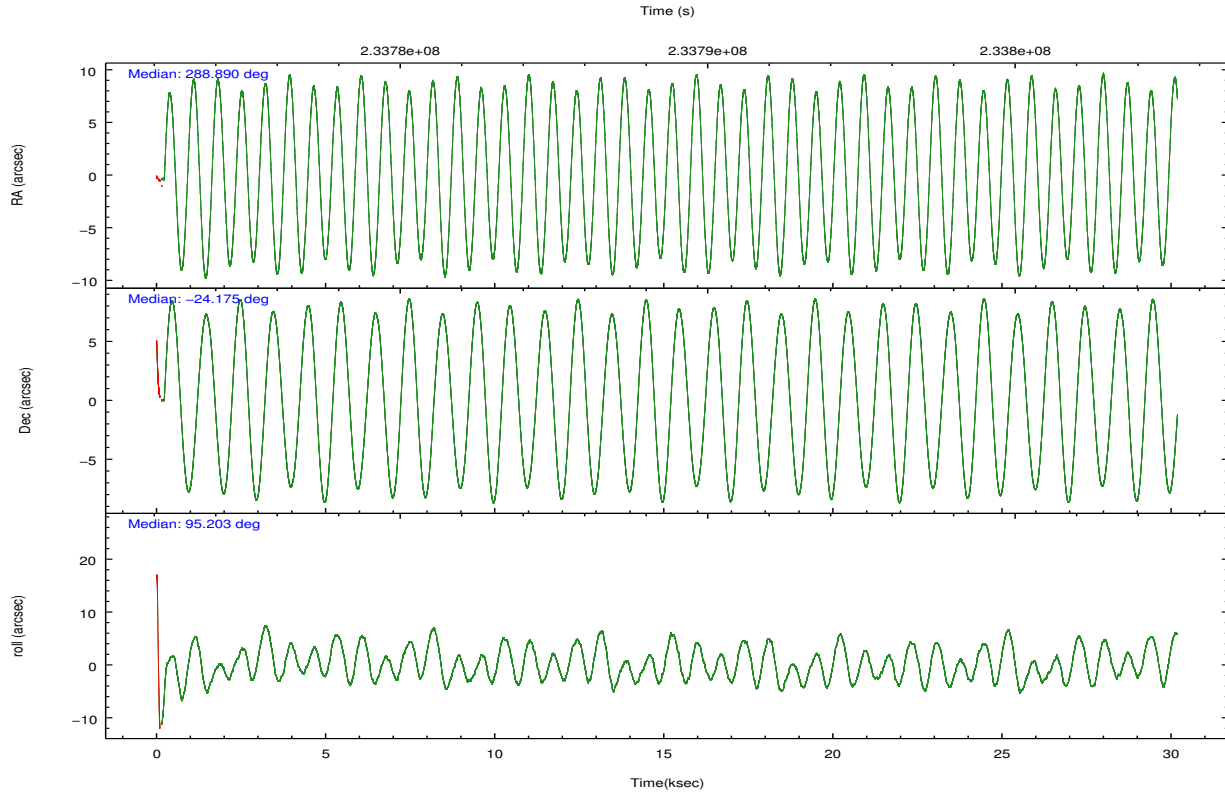
### 2.1.4 Events

	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	188435	173679	251847	181504	204271	224848	grade 0 events	6741	6708	19391	7561	9967	16318
rejected events	170289	156364	123323	161820	109261	172250		3%	3%	7%	4%	4%	7%
rejected %	90%	90%	48%	89%	53%	76%	grade 1 events	114	97	1406	88	197	174
								0%	0%	0%	0%	0%	0%
							grade 2 events	4244	3509	35939	4046	19618	11745
								2%	2%	14%	2%	9%	5%
							grade 3 events	2017	1975	5500	2054	9140	5649
								1%	1%	2%	1%	4%	2%
							grade 4 events	1885	1888	5374	2067	9029	5176
								1%	1%	2%	1%	4%	2%
							grade 5 events	6060	6951	19512	7435	21198	10394
								3%	4%	7%	4%	10%	4%
							grade 6 events	3323	3287	62755	4045	47627	13896
								1%	1%	24%	2%	23%	6%
							grade 7 events	164051	149264	101970	154208	87495	161496
								87%	85%	40%	84%	42%	71%

## 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	288.907309	288.8897734835134	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.197235	-24.175191682337	Alternating exposures requested	N	N
[deg] Pointing Roll	95.061100	95.21055730727876	[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	0.310000	0.310000			
Phase end	0.430000	0.430000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
[s] Observation start time (MET)	233773773.184000	233772726.73207			
Observation start date	2005-05-29T17:08:29	2005-05-29T16:52:06			
[s] Observation end time (MET)	233803773.184000	233805240.24605			
Observation end date	2005-05-30T01:28:29	2005-05-30T01:54:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect

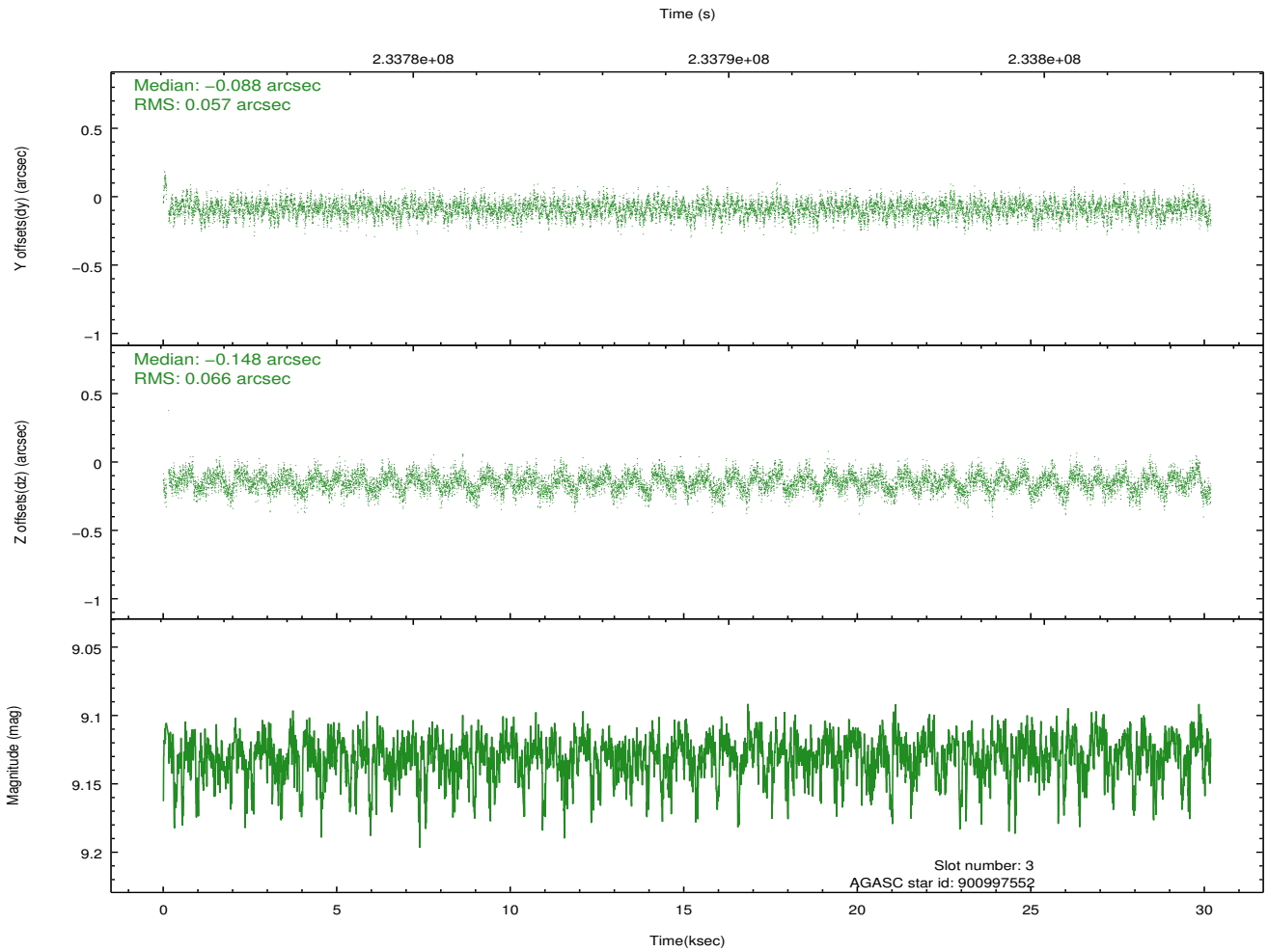
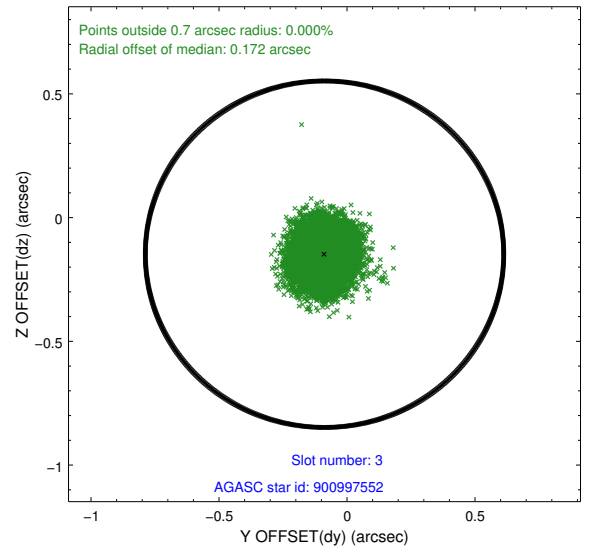
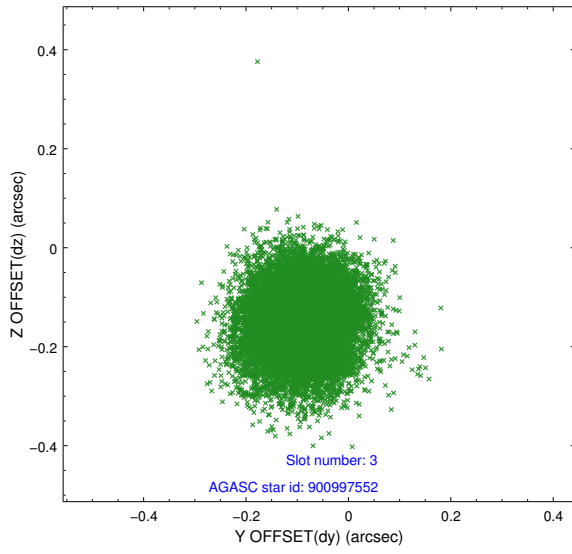


### Slot Statistics

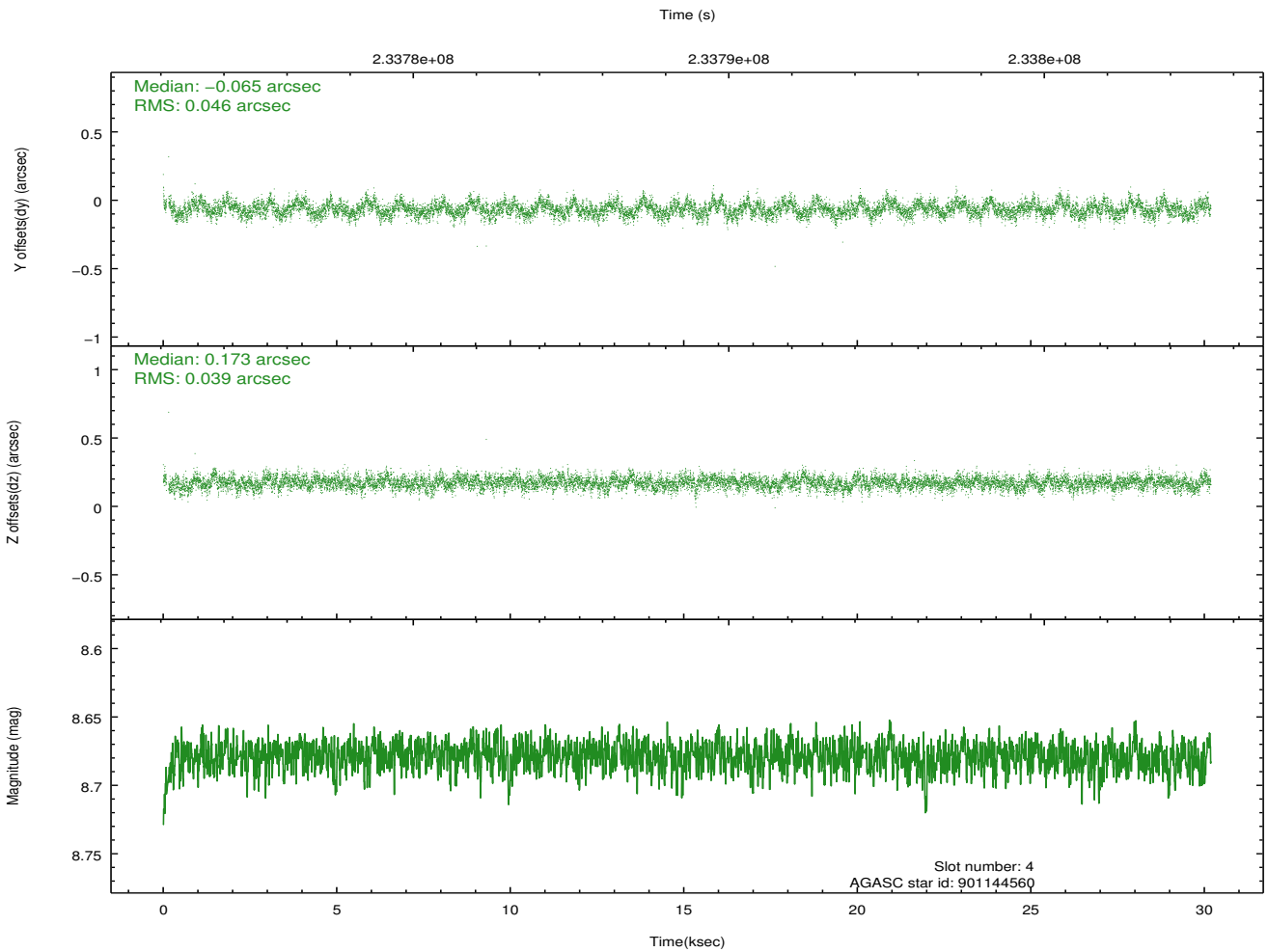
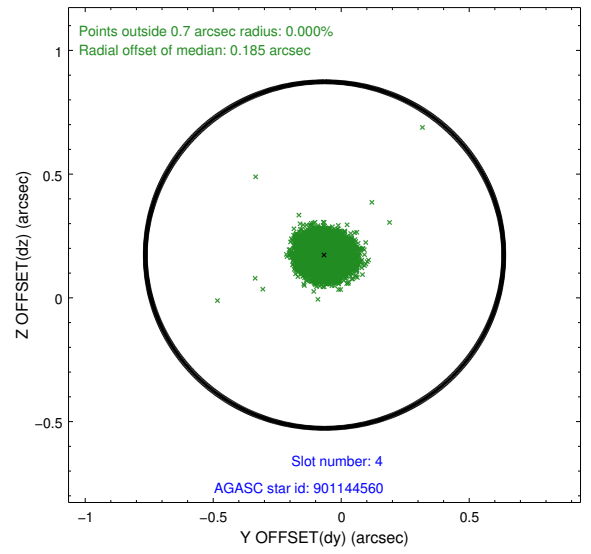
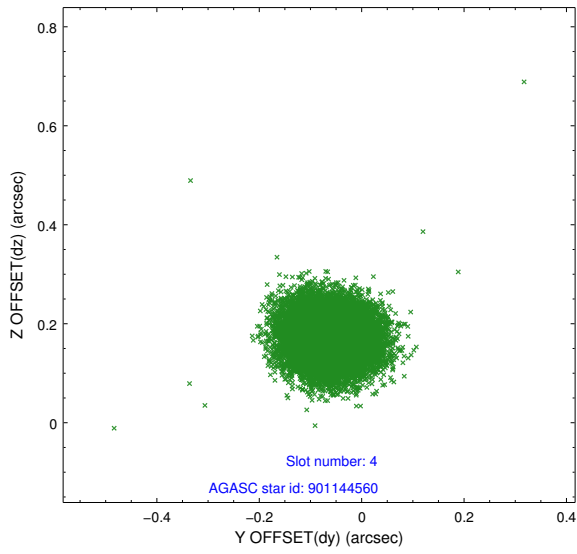
	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-S-2	7.10	7349	-0.059	-0.031	0.008
	FID	ACIS-S-4	7.20	7349	0.104	0.037	0.008
	FID	ACIS-S-5	7.24	7349	-0.077	0.003	0.007
	GUIDE	900997552	9.13	14690	-0.088	-0.148	0.093
	GUIDE	901144560	8.68	14690	-0.065	0.173	0.064
	GUIDE	901514880	8.92	14692	0.097	-0.167	0.076
	GUIDE	901647096	9.15	14688	0.057	0.145	0.078
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

## 2.4 Star Slots

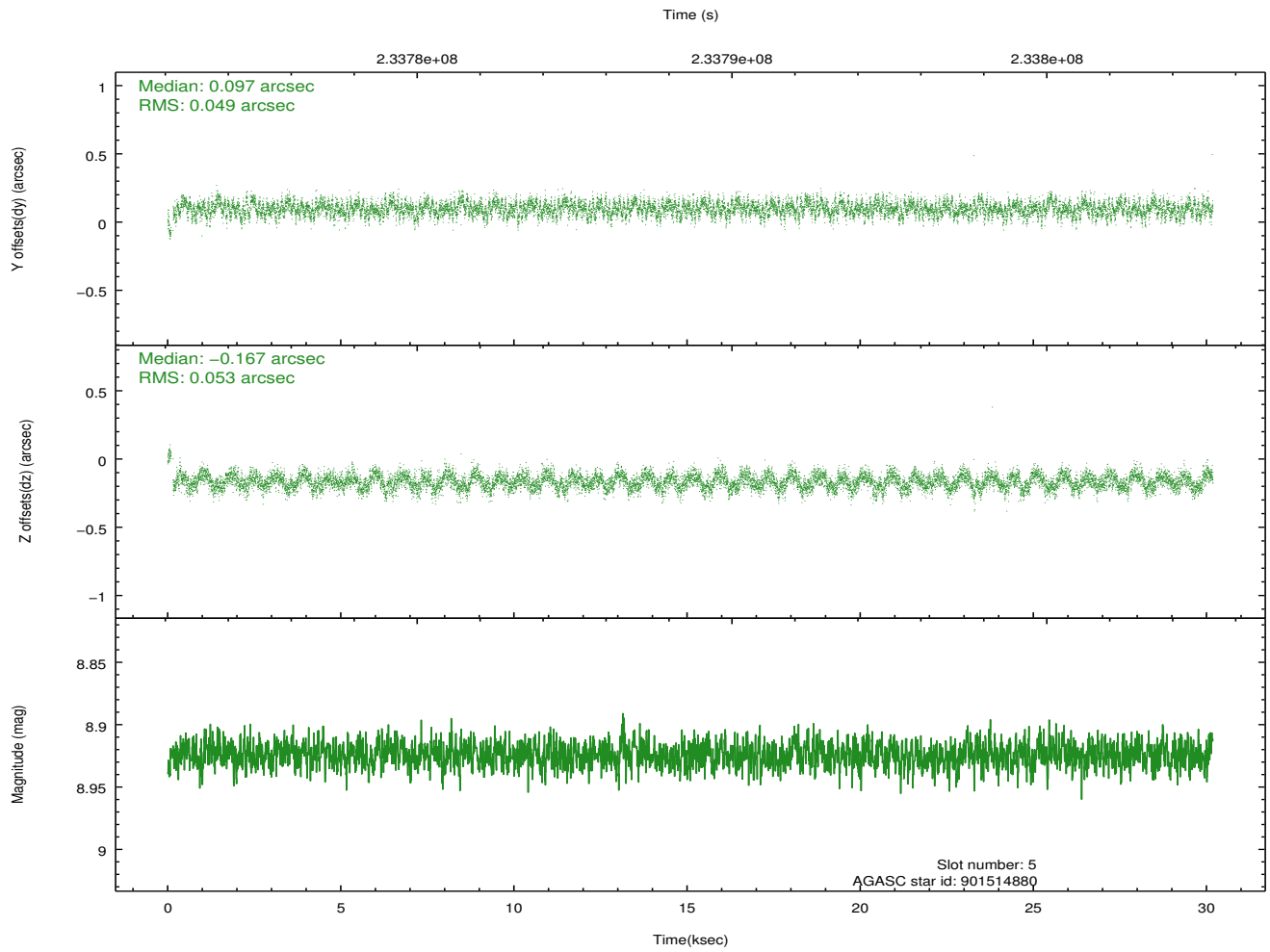
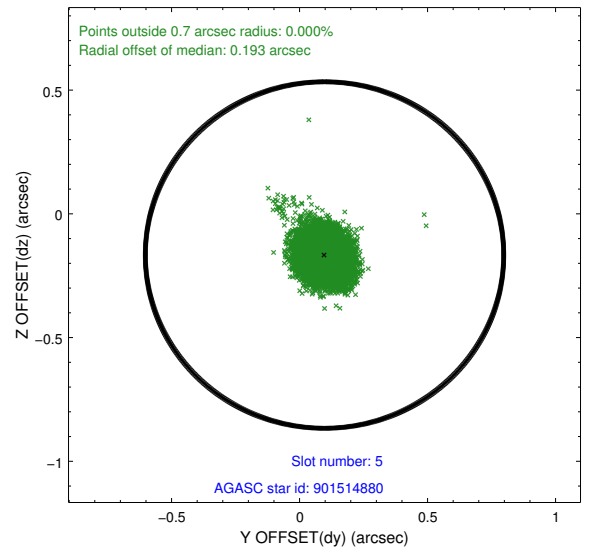
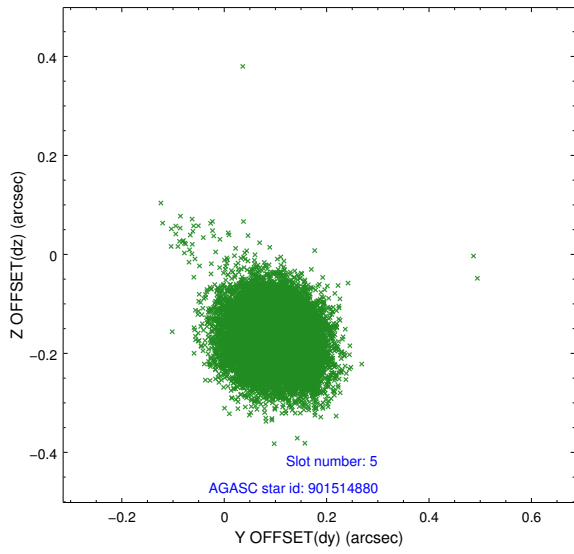
### 2.4.1 Slot 3



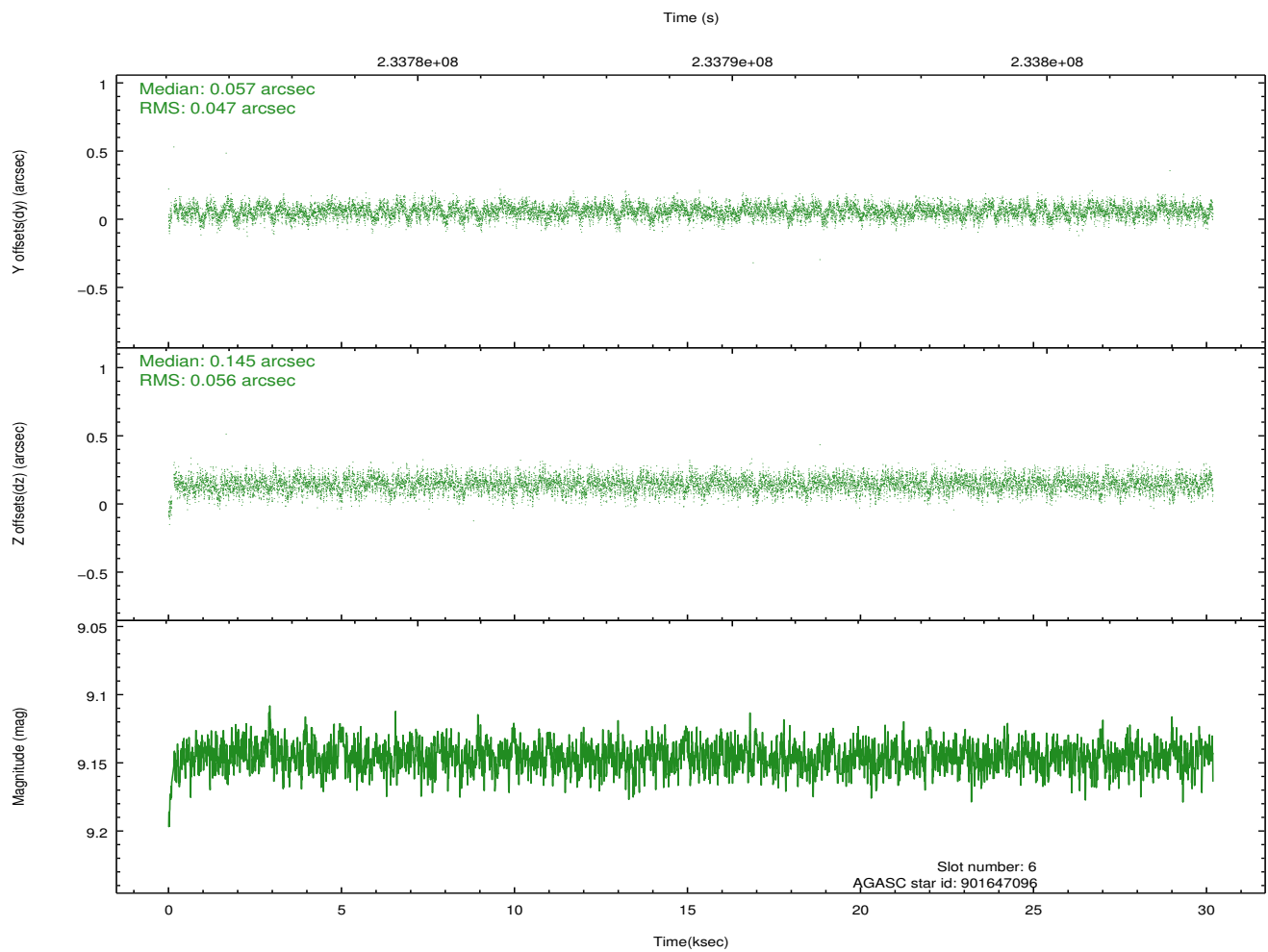
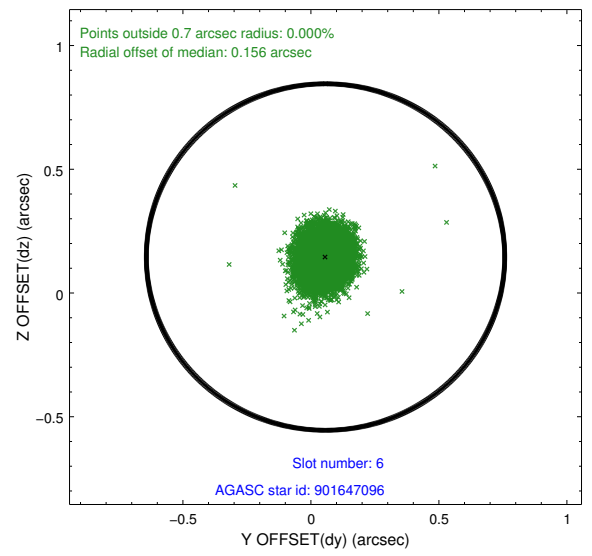
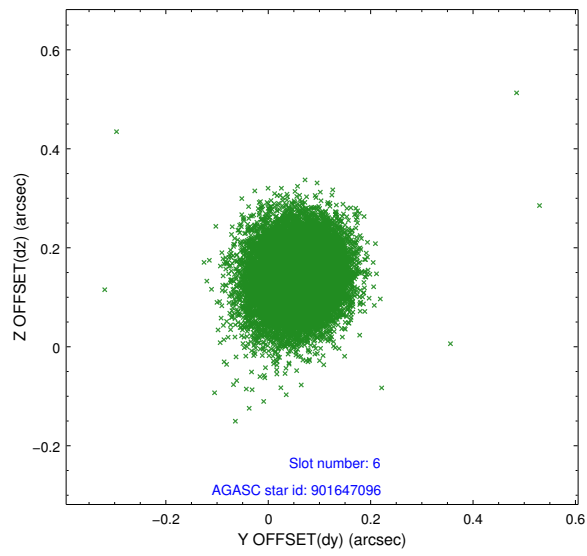
### 2.4.2 Slot 4



### 2.4.3 Slot 5

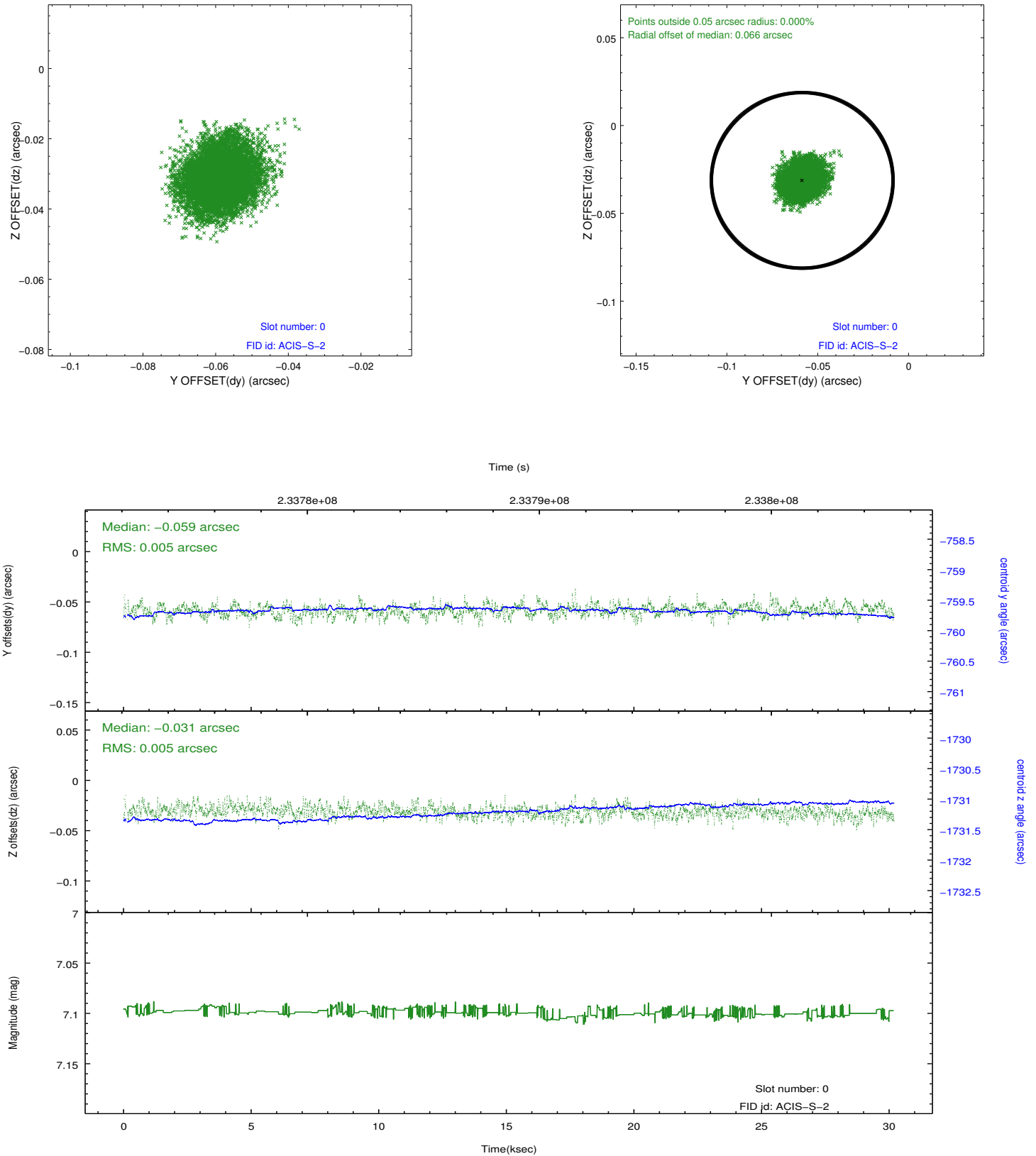


## 2.4.4 Slot 6

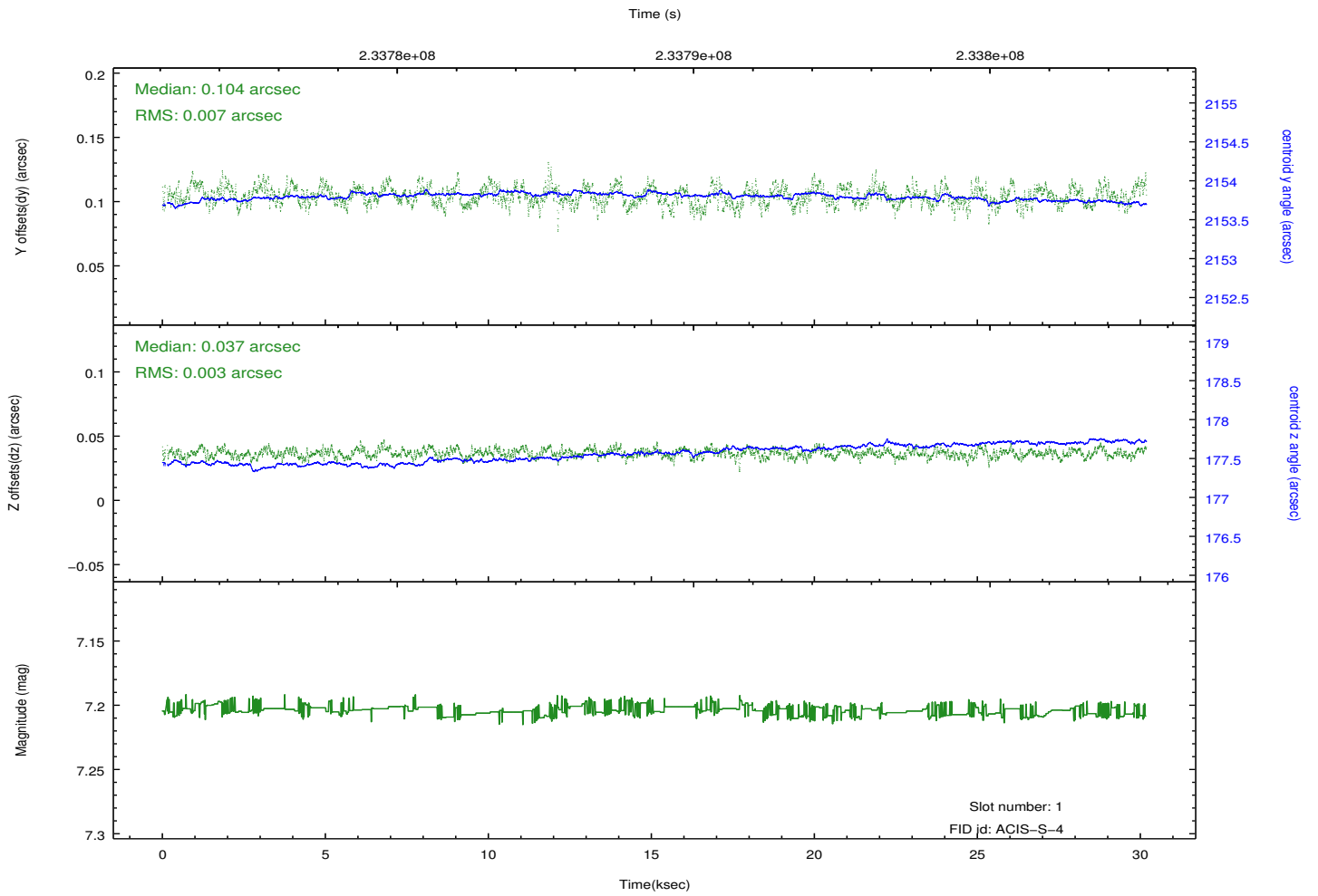
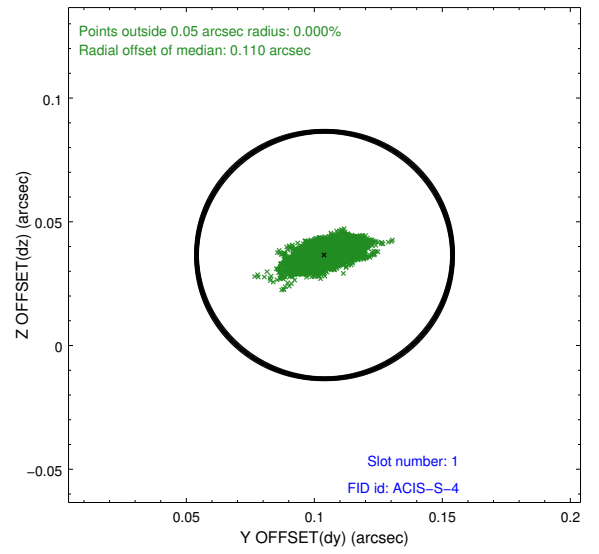
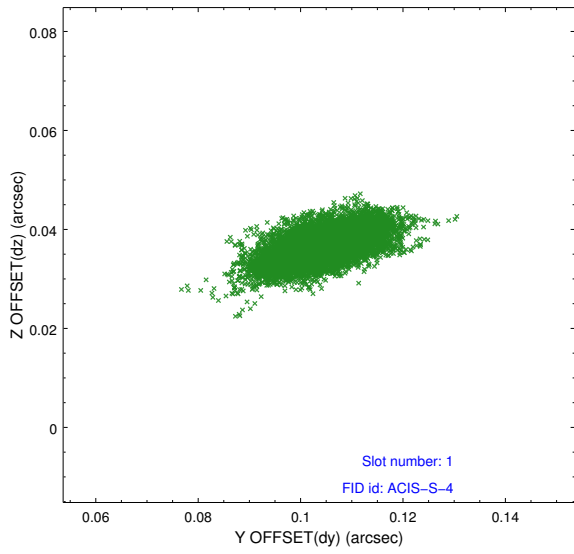


## 2.5 FID Slots

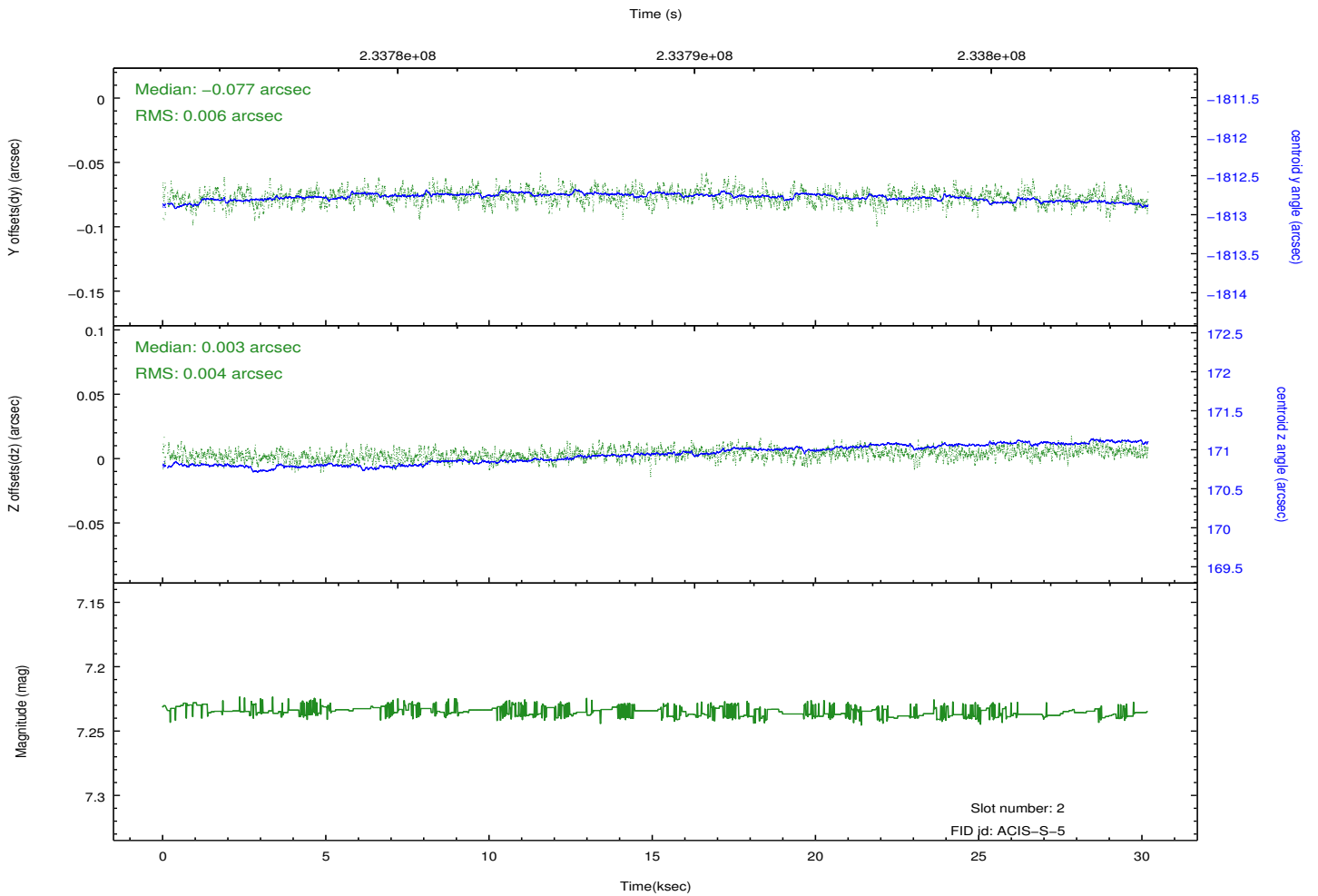
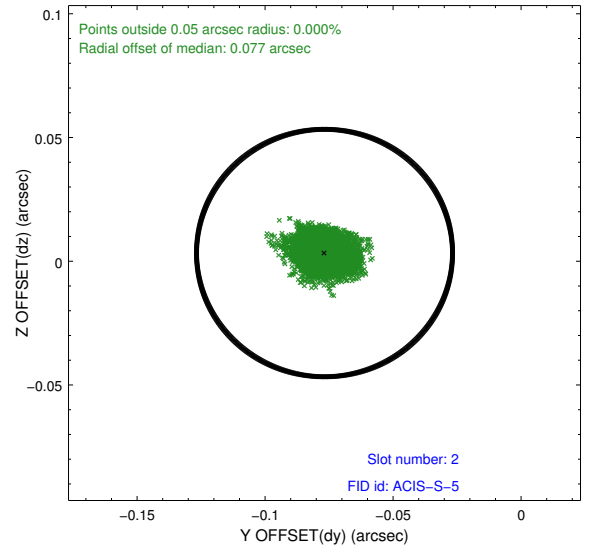
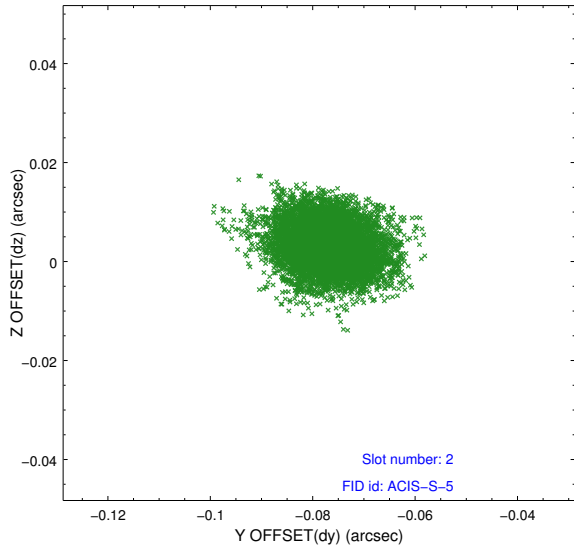
### 2.5.1 Slot 0



## 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	30.02559

## A.2 Comments

Joint Proposal: HST. Monitor constraint met.