

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3862 - L2 Version 3  
Chandra X-Ray Center

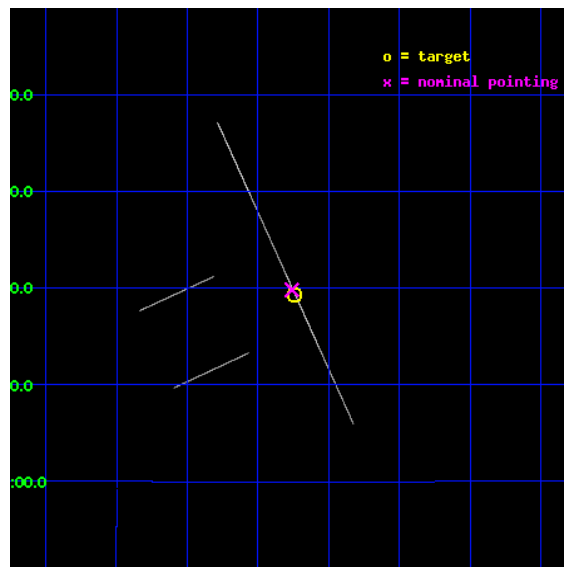
L2 Processing Date : Oct 23 2012

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# 1 Front

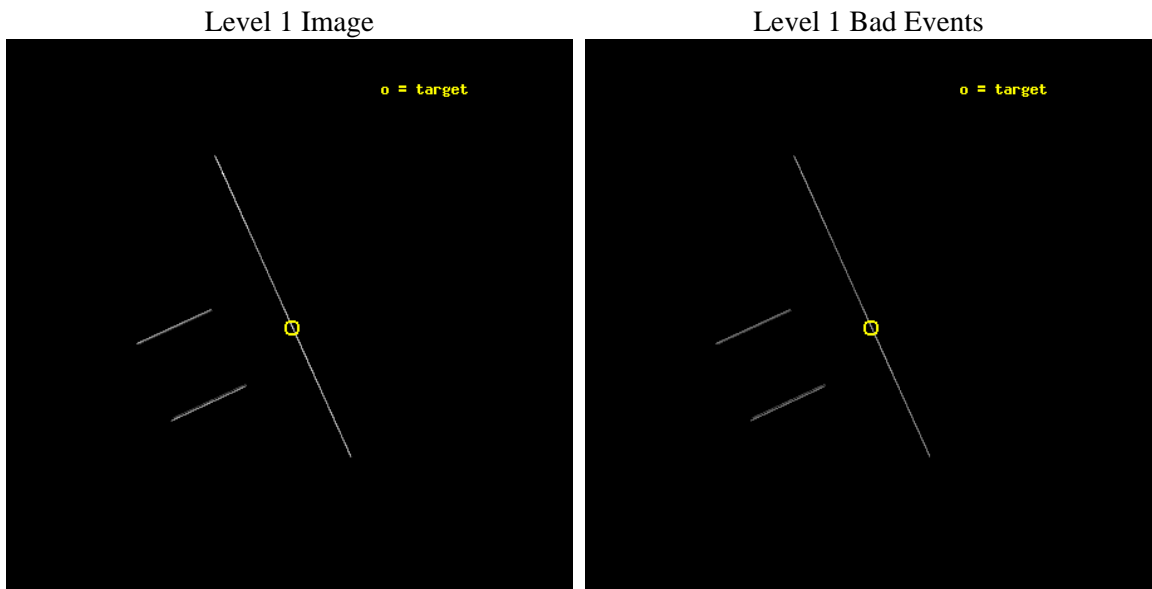
seq_num	500341	Sequence number
obs_id	3862	Observation id
title	PROBING THE NATURE OF THE TORQUE VARIABILITY IN SGR 1900+14	Propos
observer	Dr. Peter Woods	Principal investigator
object	SGR 1900+14	Source name
ra_targ	286.809583	Observer's specified target RA [deg]
dec_targ	9.32225	Observer's specified target Dec [deg]
ra_nom	286.81514865435	Nominal RA [deg]
dec_nom	9.3302103032776	Nominal Dec [deg]
roll_nom	65.417237423221	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25228.5	Sum of GTIs [s]
livetime	25129.951171875	Livetime [s]
ontime2	25228.5	Sum of GTIs [s]
ontime3	25228.5	Sum of GTIs [s]
ontime5	25228.5	Sum of GTIs [s]
ontime6	25228.5	Sum of GTIs [s]
ontime7	25228.5	Sum of GTIs [s]
ontime8	25228.5	Sum of GTIs [s]
l2events	281767	Number of level 2 events



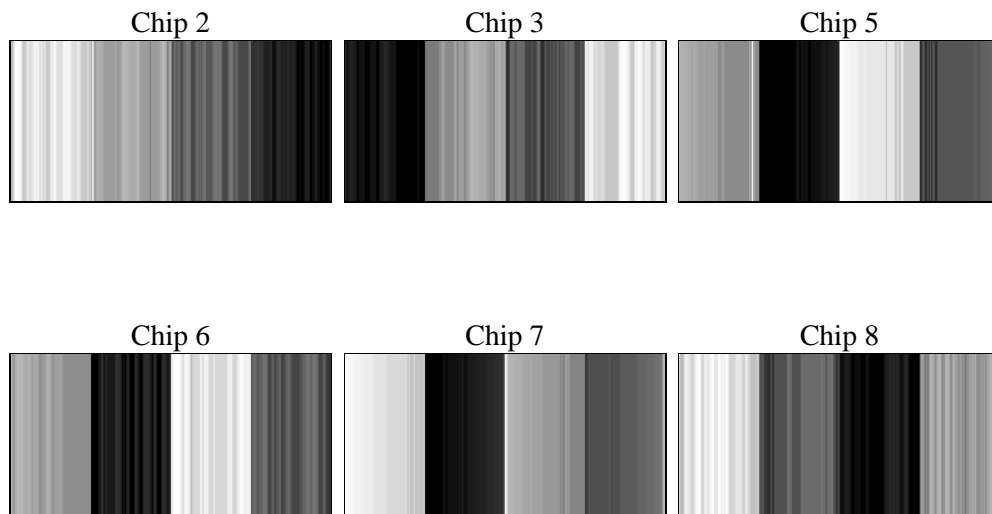
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	25228.5	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	25228.5	Sum of GTIs [s]
date	2012-10-23T09:32:04	Date and time of file creation	ontime3	25228.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	25228.5	Sum of GTIs [s]
			ontime6	25228.5	Sum of GTIs [s]
			ontime7	25228.5	Sum of GTIs [s]
			ontime8	25228.5	Sum of GTIs [s]
			l1events	440900	Number of level 1 events

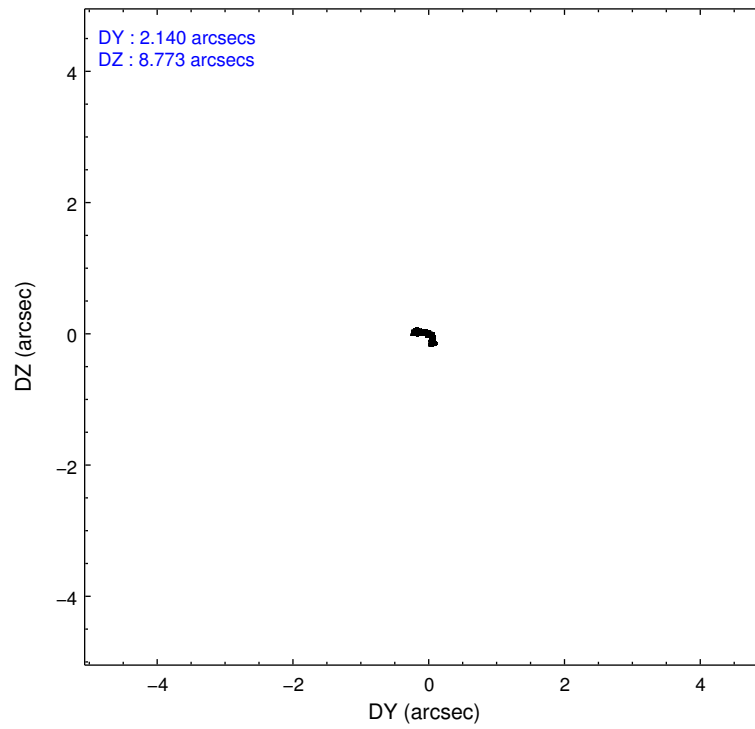
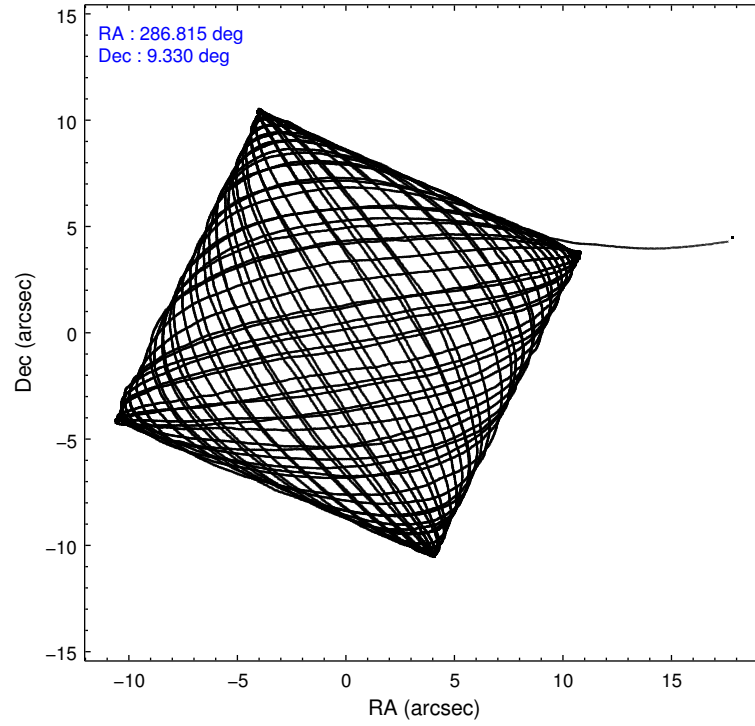
### 2.1.4 Events

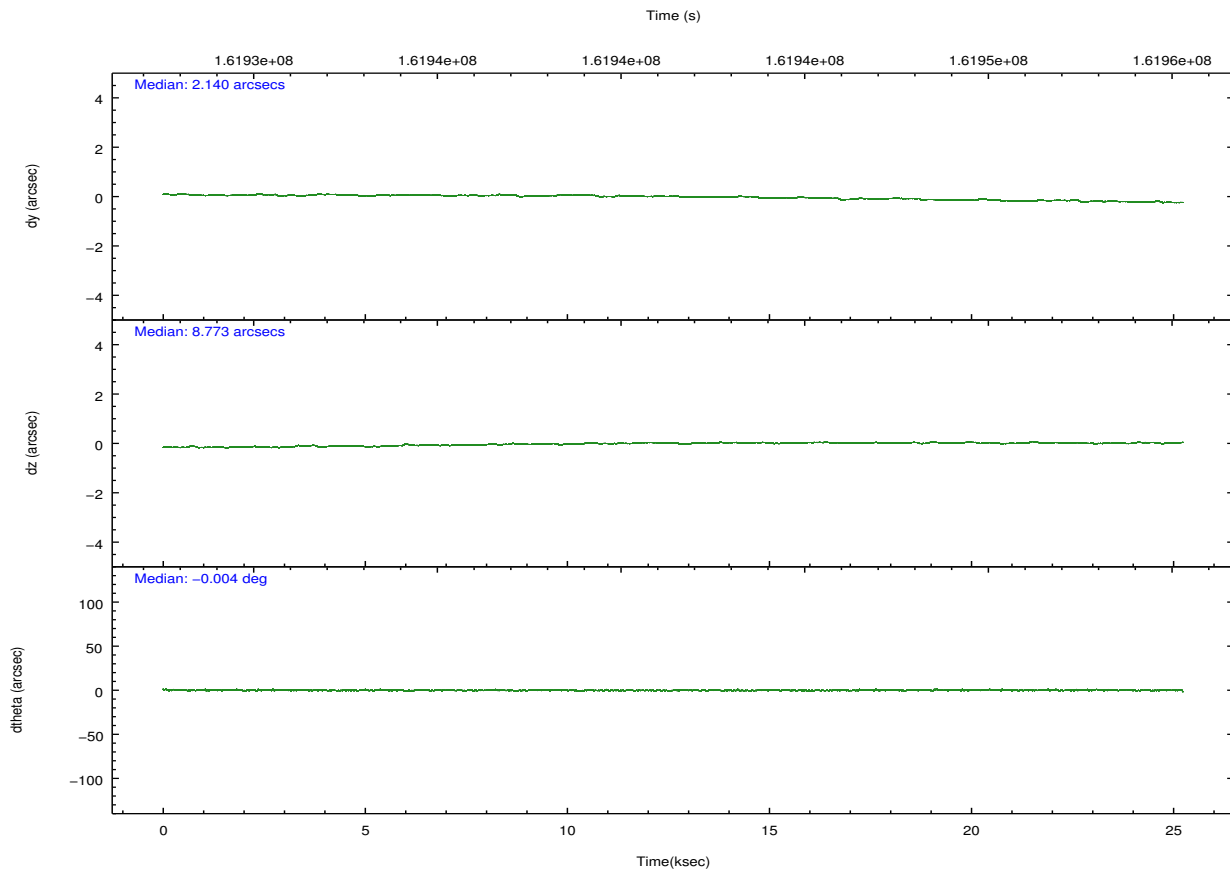
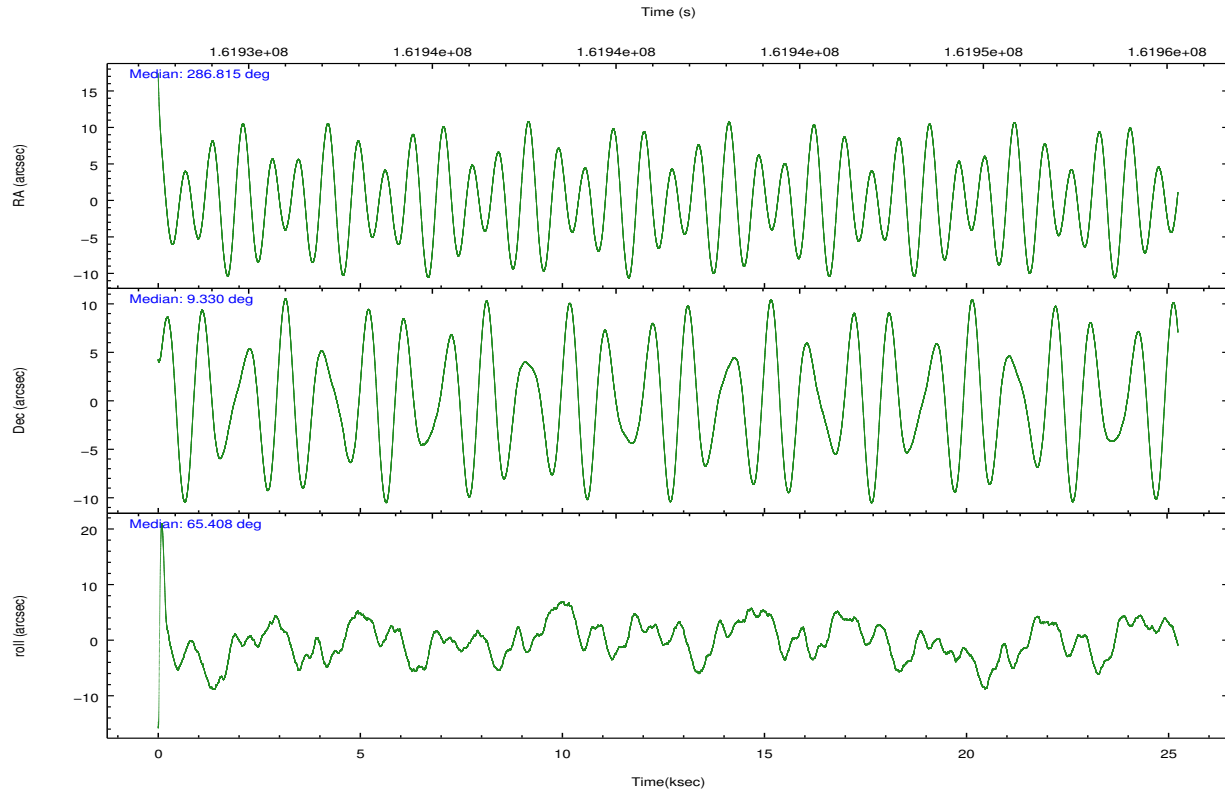
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	34155	33645	160797	34308	112469	65526	grade 0 events	4832	3672	40990	3232	10017	10652
rejected events	6386	6822	19072	7363	20474	10784		14%	10%	25%	9%	8%	16%
rejected %	18%	20%	11%	21%	18%	16%	grade 1 events	130	100	224	127	223	219
								0%	0%	0%	0%	0%	0%
							grade 2 events	11133	10429	38842	10735	23178	17092
								32%	30%	24%	31%	20%	26%
							grade 3 events	3568	4129	3204	3647	7568	7032
								10%	12%	1%	10%	6%	10%
							grade 4 events	3646	3559	3058	3505	7543	6773
								10%	10%	1%	10%	6%	10%
							grade 5 events	5503	5953	14443	6352	17760	8994
								16%	17%	8%	18%	15%	13%
							grade 6 events	5343	5803	60036	6710	46180	14764
								15%	17%	37%	19%	41%	22%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

## 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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	286.818129	286.8151486543545	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.303130	9.330210303277614	Alternating exposures requested	N	N
[deg] Pointing Roll	65.260150	65.41723742322148	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	161929032.184000	161928028.44168			
Observation start date	2003-02-18T04:16:08	2003-02-18T04:00:28			
[s] Observation end time (MET)	161954032.184000	161954467.8053			
Observation end date	2003-02-18T11:12:48	2003-02-18T11:21:07			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect





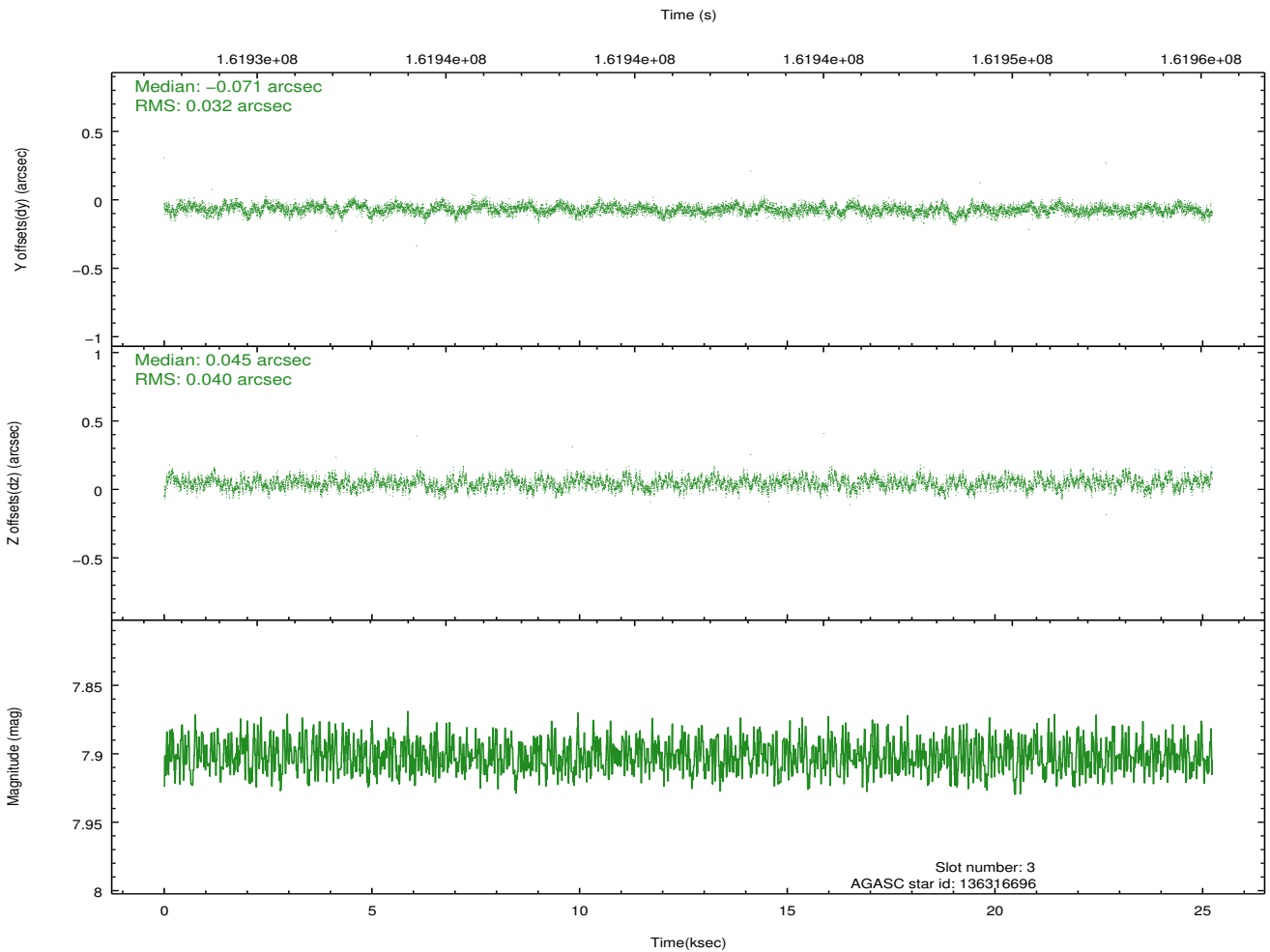
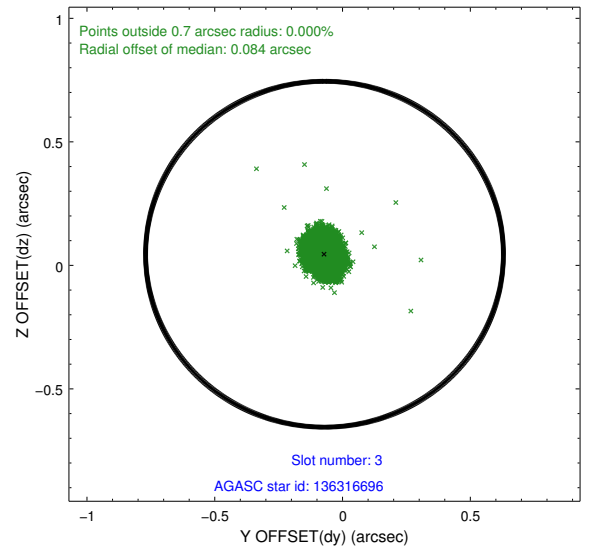
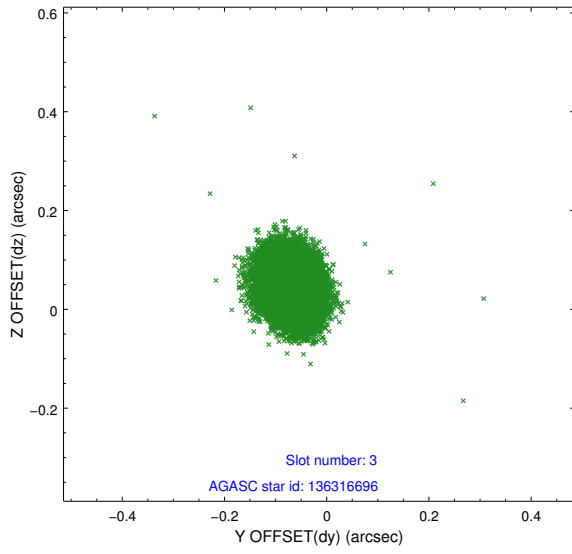
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6154	-0.037	-0.021	0.007	0.012	0.000000	0.000000	-754.76	-1729.93
1	FID	ACIS-S-4	7.20	6154	0.004	0.023	0.006	0.012	0.000000	0.000000	2158.50	178.49
2	FID	ACIS-S-5	7.23	6153	0.001	0.007	0.008	0.013	0.000000	0.000000	-1807.42	172.26
3	GUIDE	136316696	7.90	12309	-0.071	0.045	0.055	0.087	287.190166	9.367792	765.31	-1102.05
4	GUIDE	136317344	9.24	12301	0.123	-0.011	0.090	0.145	287.032148	8.921467	-928.63	-1266.36
5	GUIDE	136844512	7.37	12308	-0.179	-0.237	0.061	0.095	286.436543	9.770401	961.38	1933.82
6	GUIDE	136317768	9.47	12273	0.234	0.221	0.096	0.162	286.604147	8.690245	-2321.91	-231.59
7	GUIDE	136845056	9.48	12277	-0.109	-0.026	0.119	0.211	286.321553	9.661191	433.79	2140.71

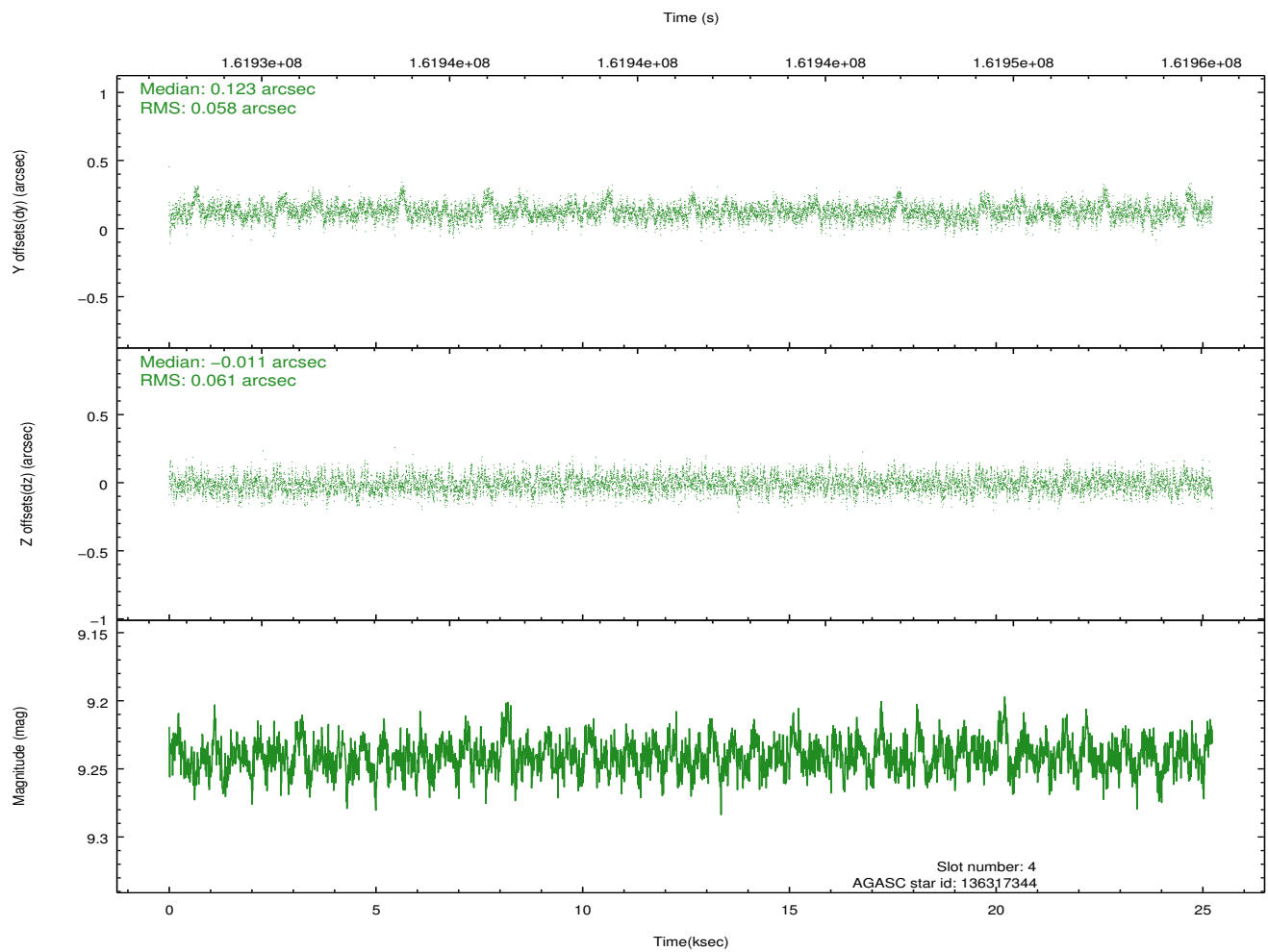
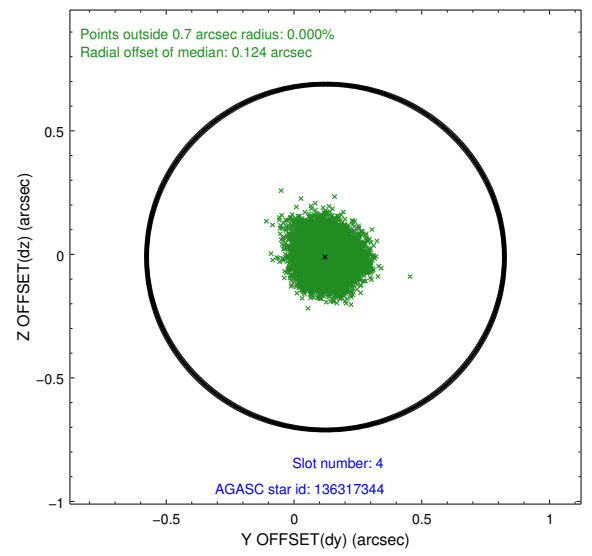
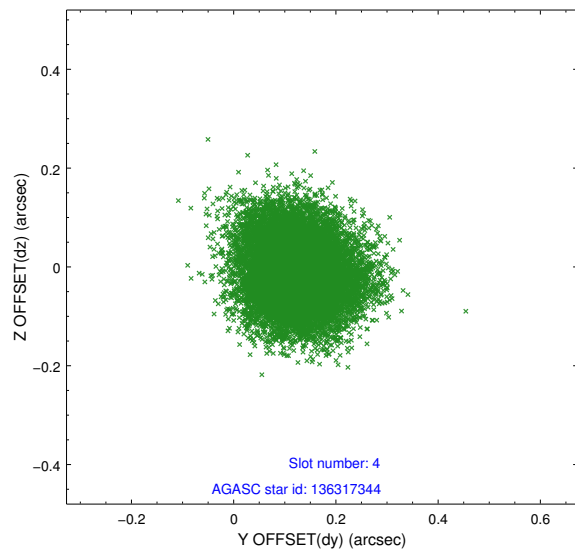
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## 2.4 Star Slots

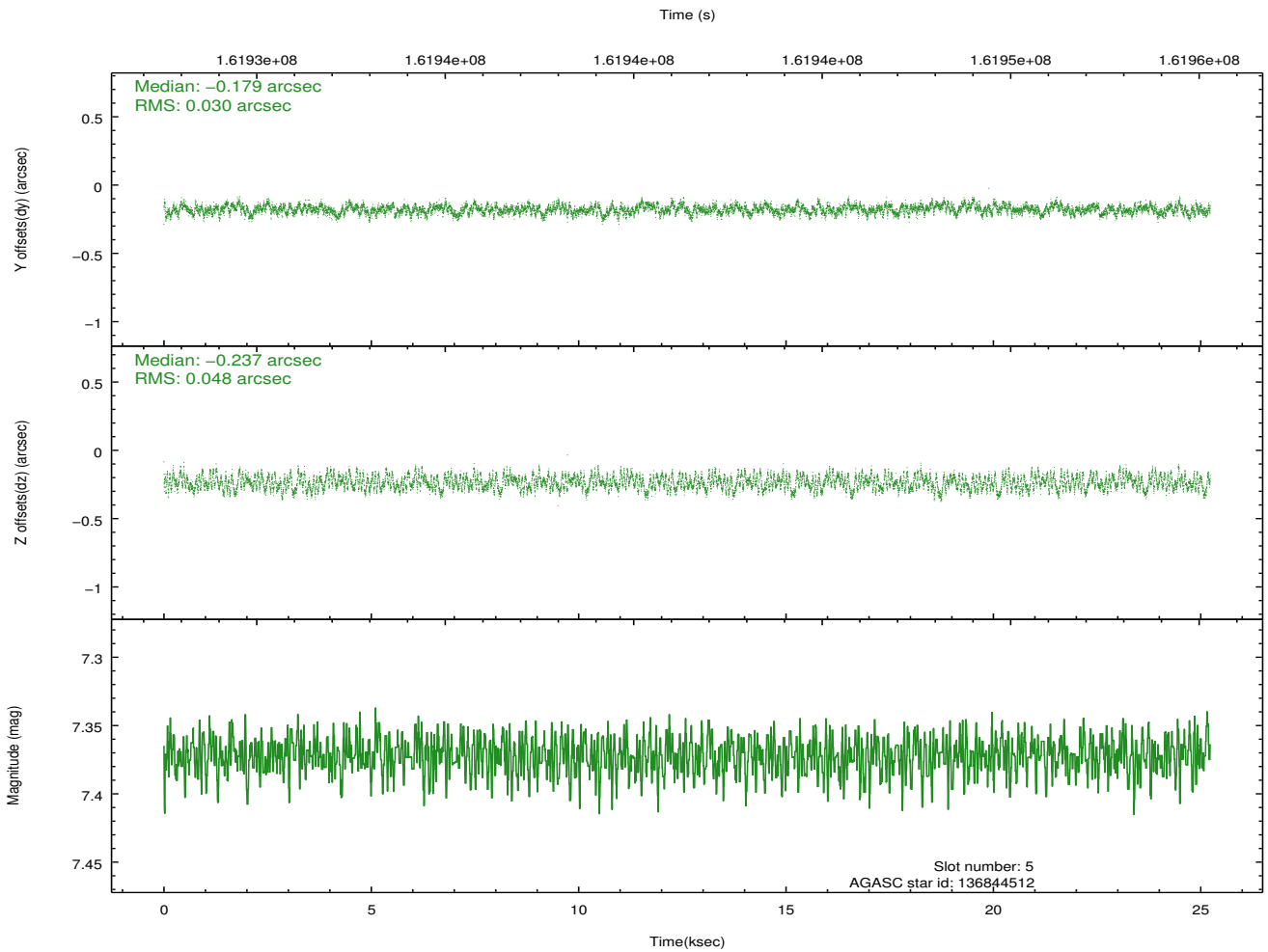
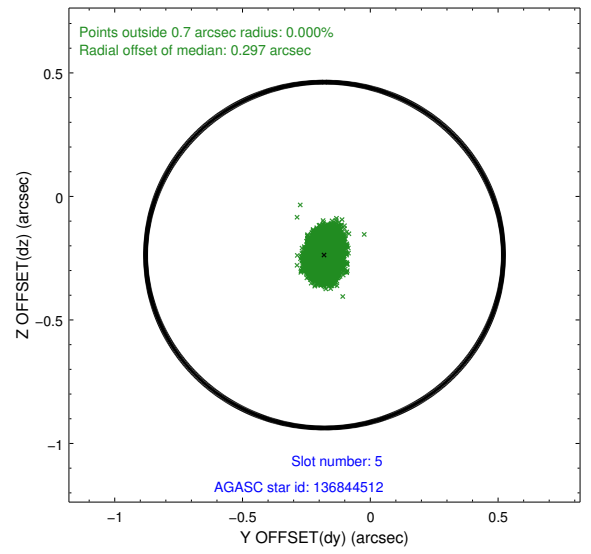
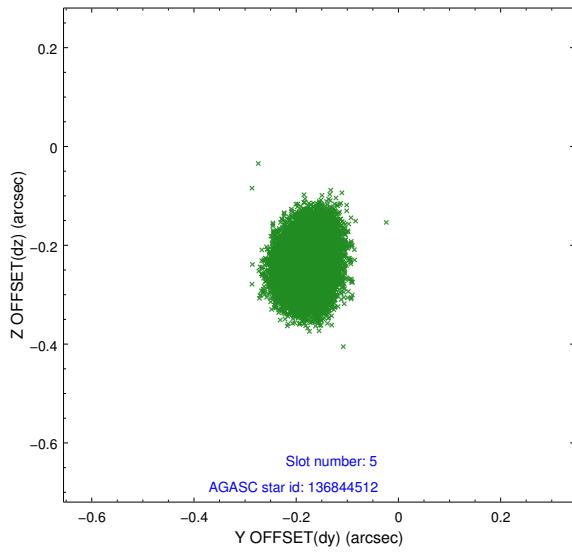
### 2.4.1 Slot 3



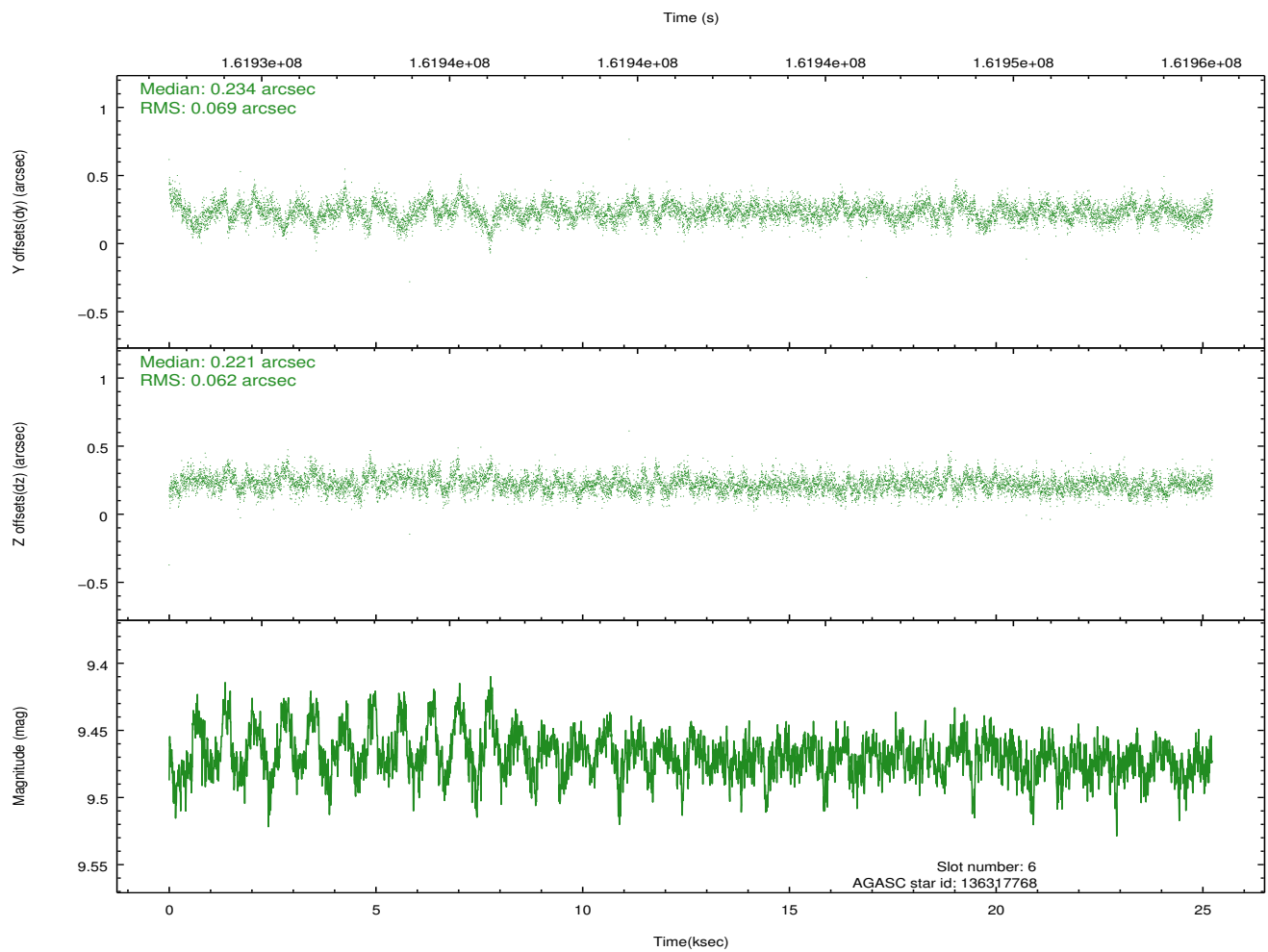
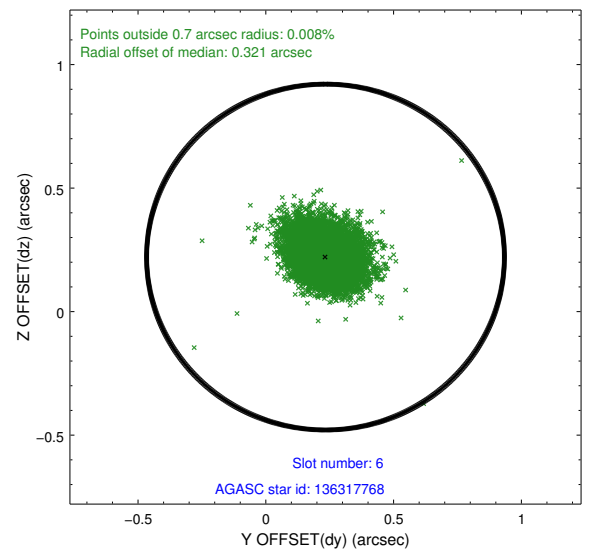
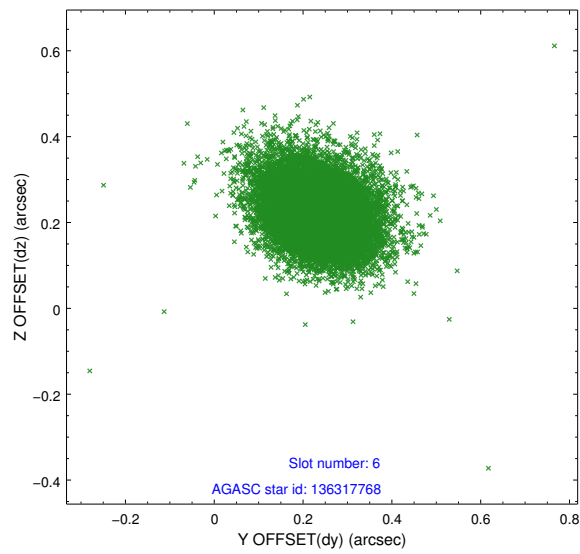
## 2.4.2 Slot 4



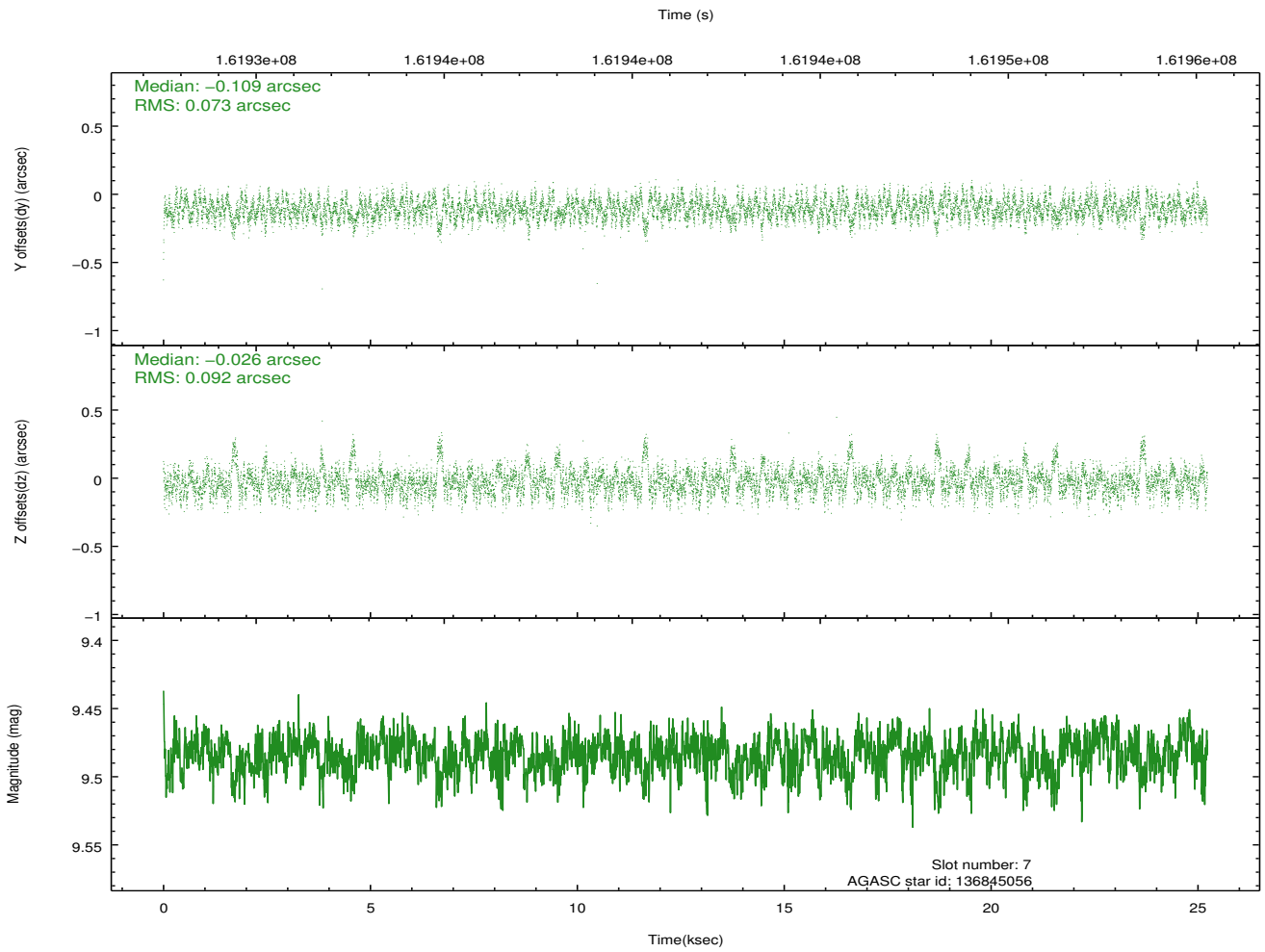
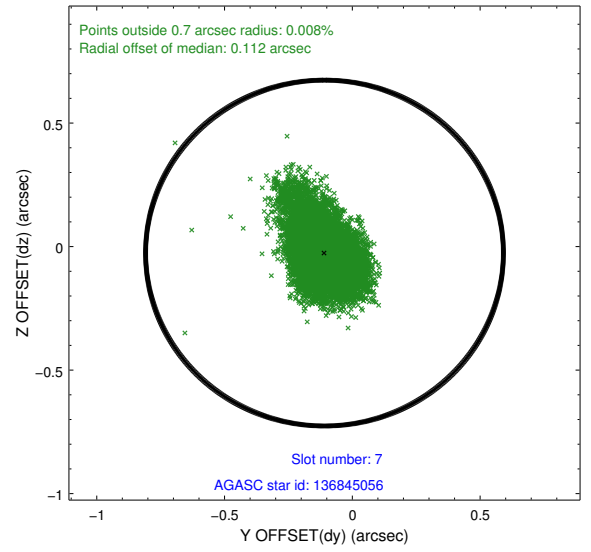
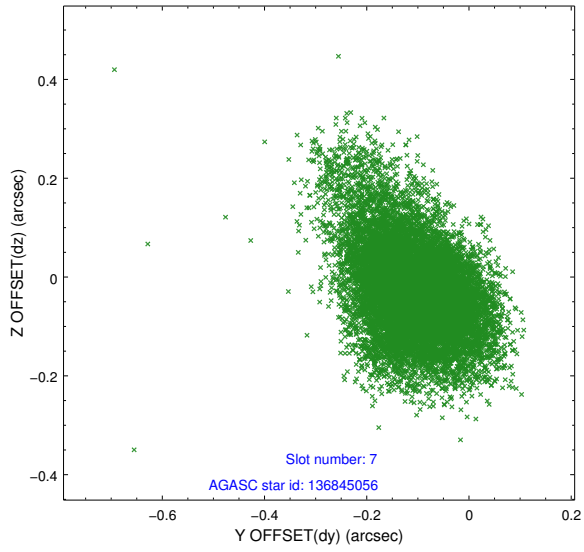
### 2.4.3 Slot 5



## 2.4.4 Slot 6

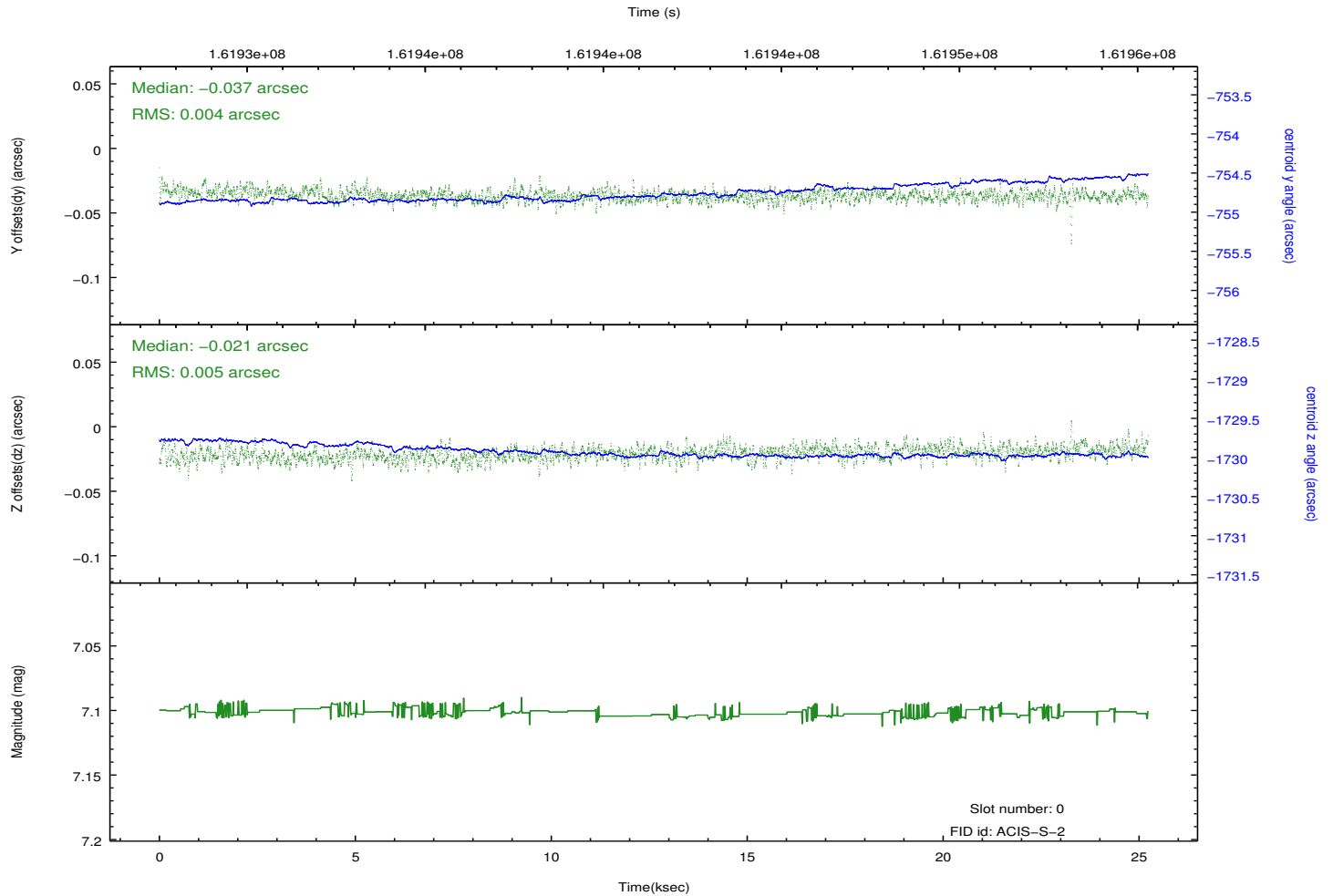
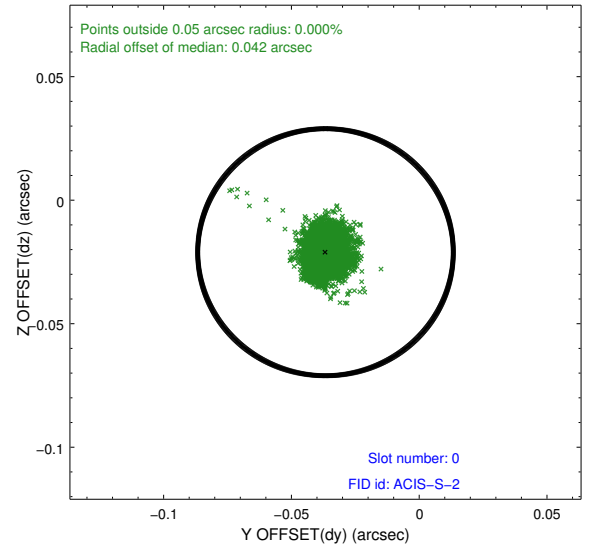
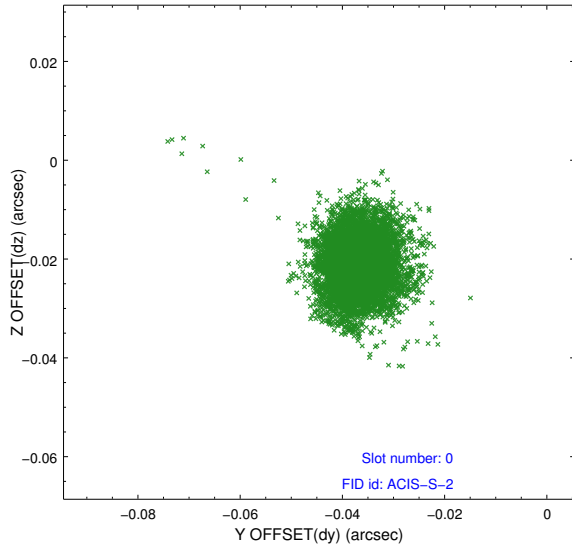


### 2.4.5 Slot 7

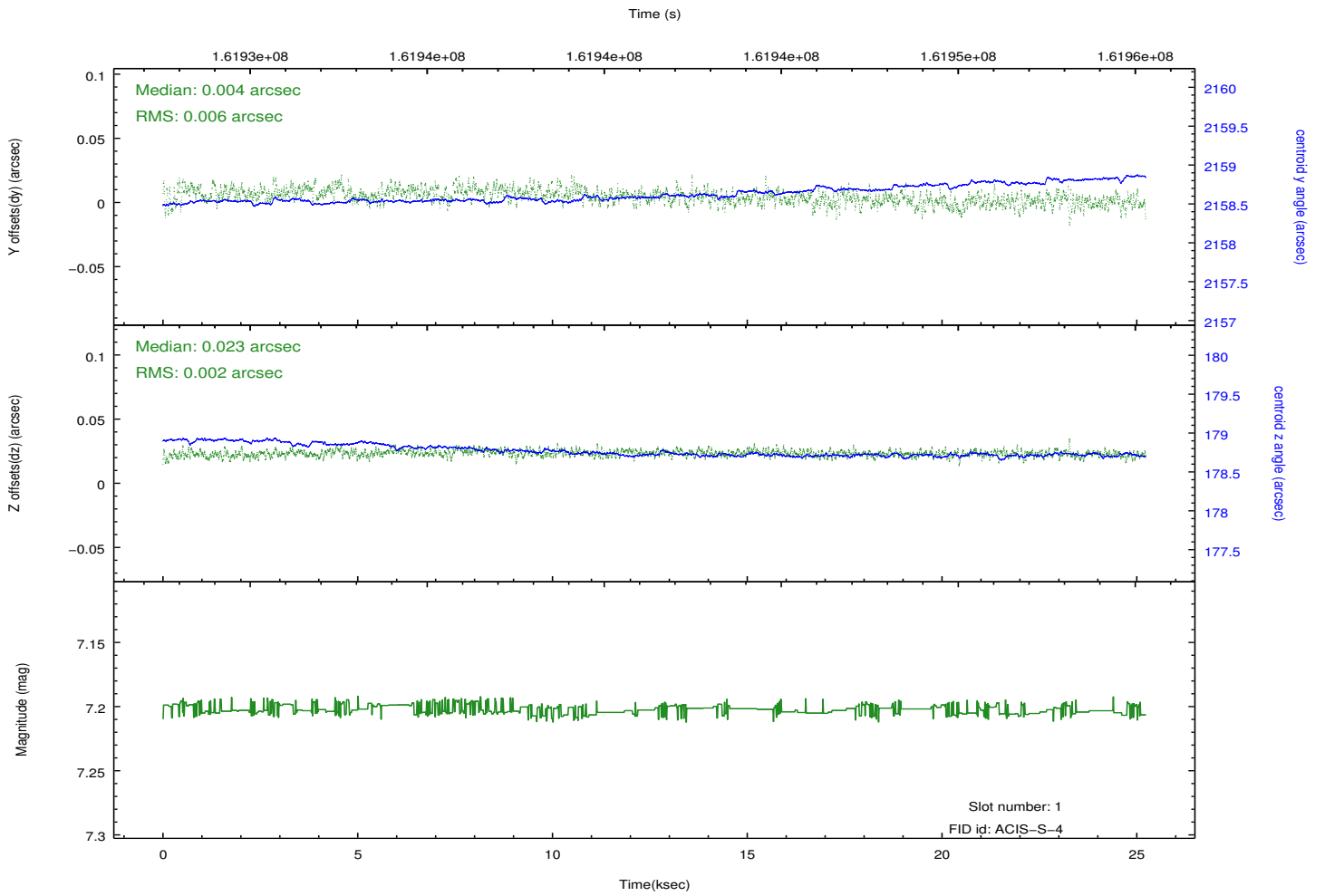
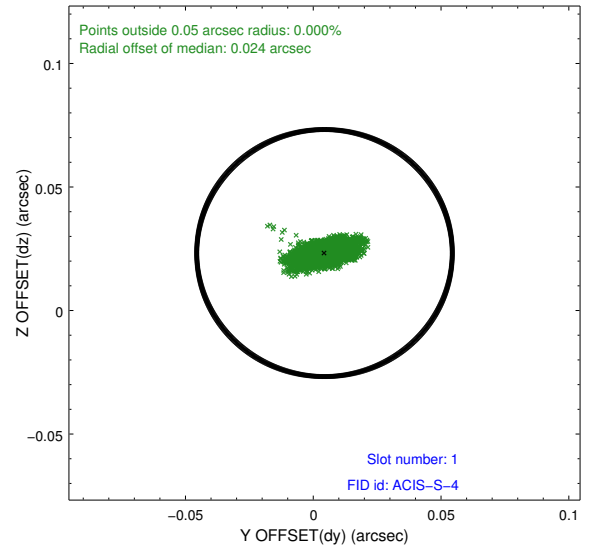
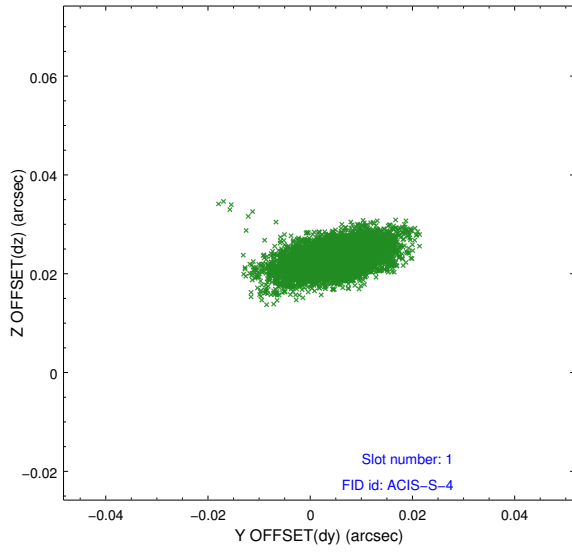


## 2.5 FID Slots

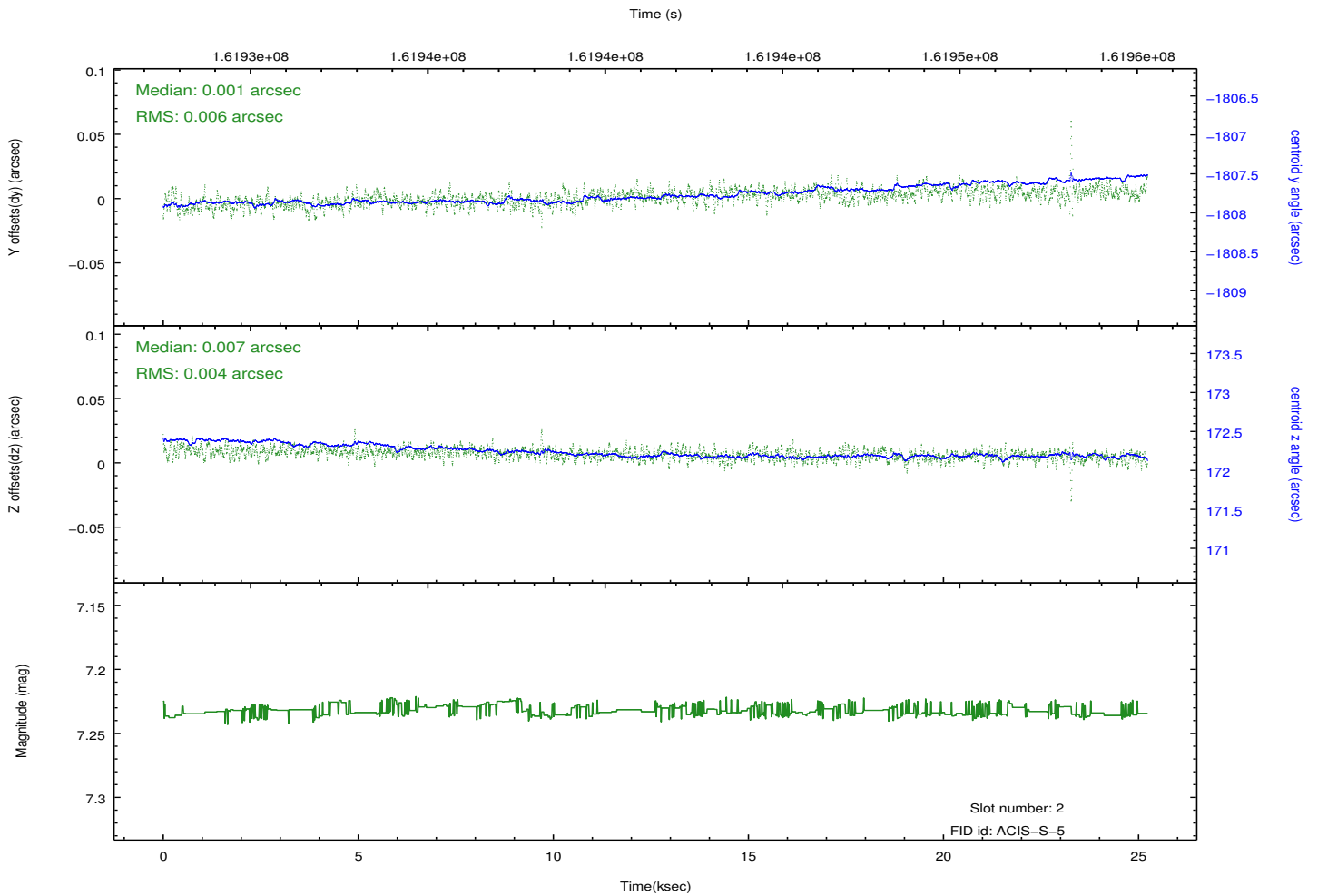
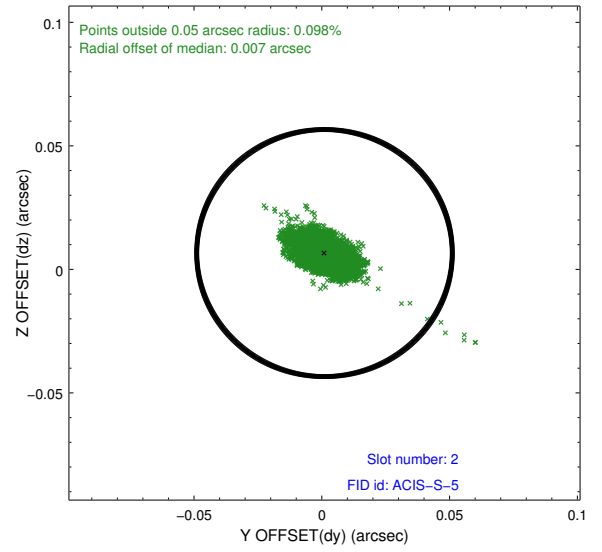
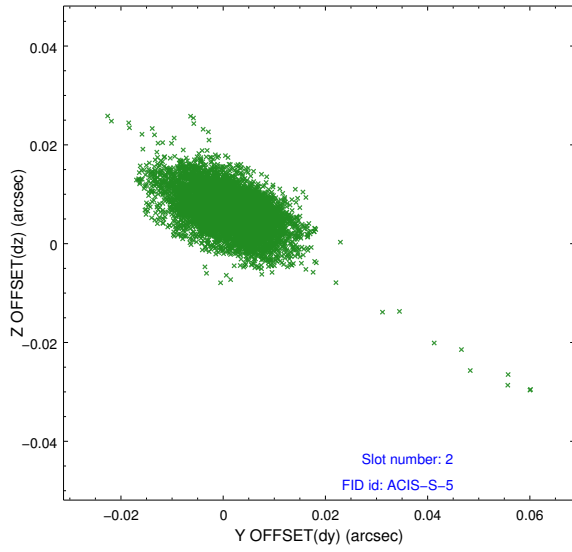
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.232

## A.2 Comments