

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12211 - L2 Version 2  
Chandra X-Ray Center

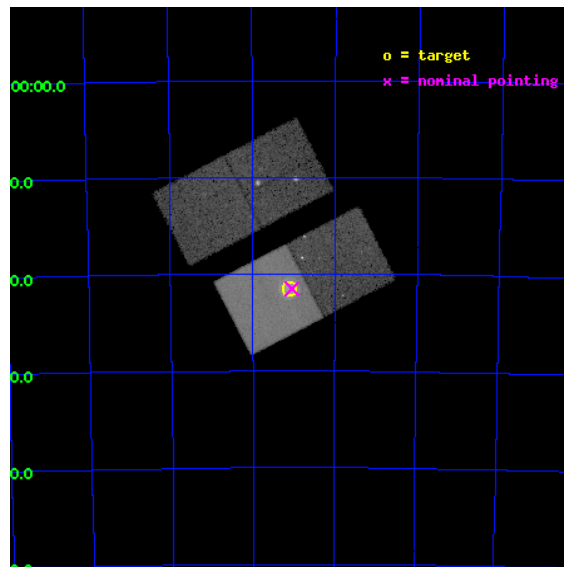
L2 Processing Date : Jun 25 2012

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# 1 Front

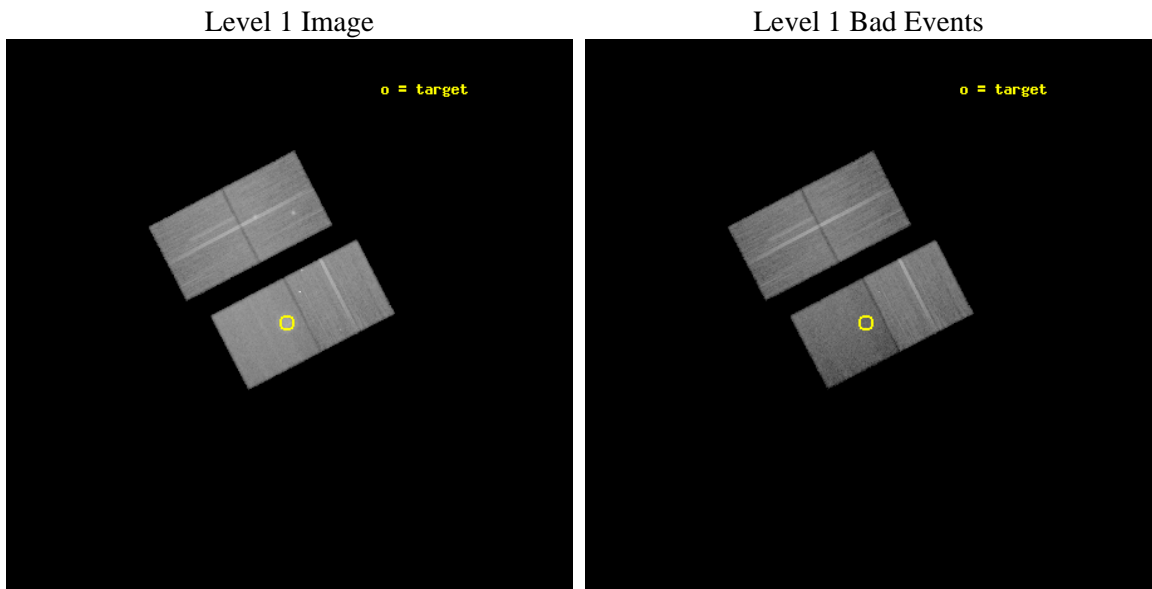
seq_num	501185	Sequence number
obs_id	12211	Observation id
title	A Detailed Study of the Aged O-Rich Supernova Remnant 0049-73.6	Pr
observer	DR. Sangwook Park	Principal investigator
object	SNR 0049-73.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.779167	Observer's specified target RA [deg]
dec_targ	-73.358333	Observer's specified target Dec [deg]
ra_nom	12.762244350833	Nominal RA [deg]
dec_nom	-73.358696852841	Nominal Dec [deg]
roll_nom	152.64040979584	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35454.700272679	Sum of GTIs [s]
livetime	34991.458512246	Livetime [s]
ontime2	35448.418341875	Sum of GTIs [s]
ontime3	35451.559282422	Sum of GTIs [s]
ontime6	35454.700272679	Sum of GTIs [s]
ontime7	35454.700272679	Sum of GTIs [s]
l2events	205267	Number of level 2 events



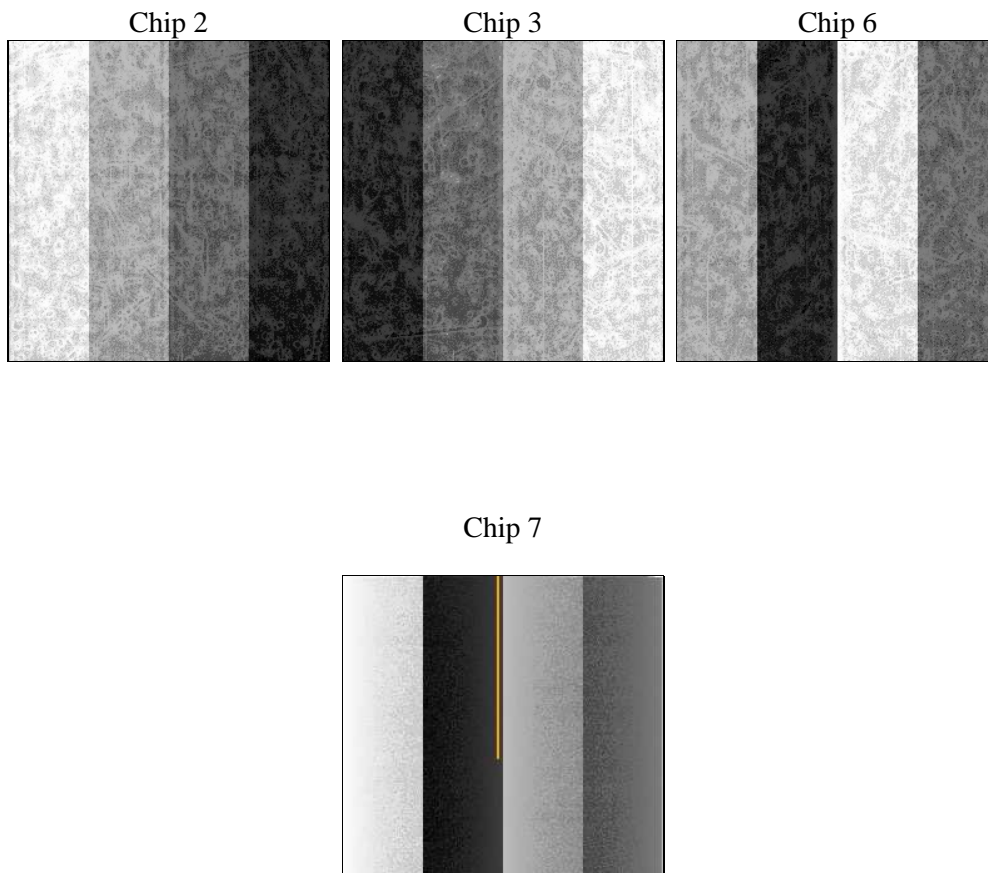
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	35454.700272679	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	35448.418341875	Sum of GTIs [s]
date	2012-06-25T10:57:23	Date and time of file creation	ontime3	35451.559282422	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	35454.700272679	Sum of GTIs [s]
			ontime7	35454.700272679	Sum of GTIs [s]
			l1events	1006252	Number of level 1 events

### 2.1.4 Events

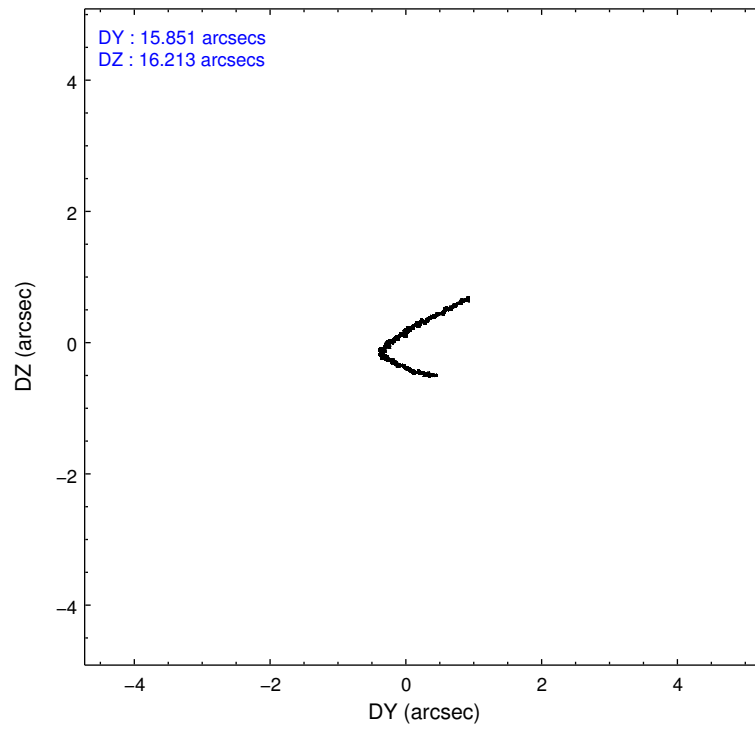
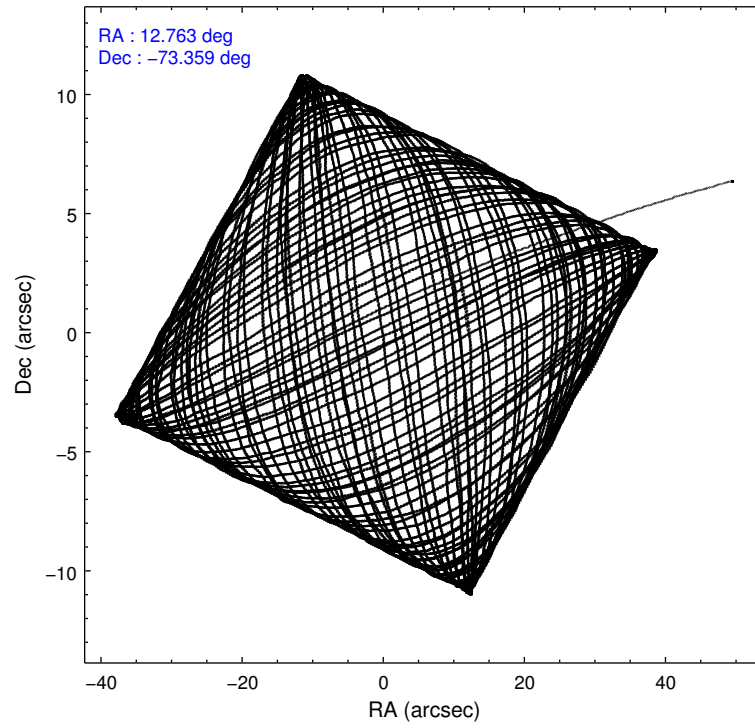
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	250053	238964	252545	264690
rejected events	221195	214597	220302	129120
rejected %	88%	89%	87%	48%

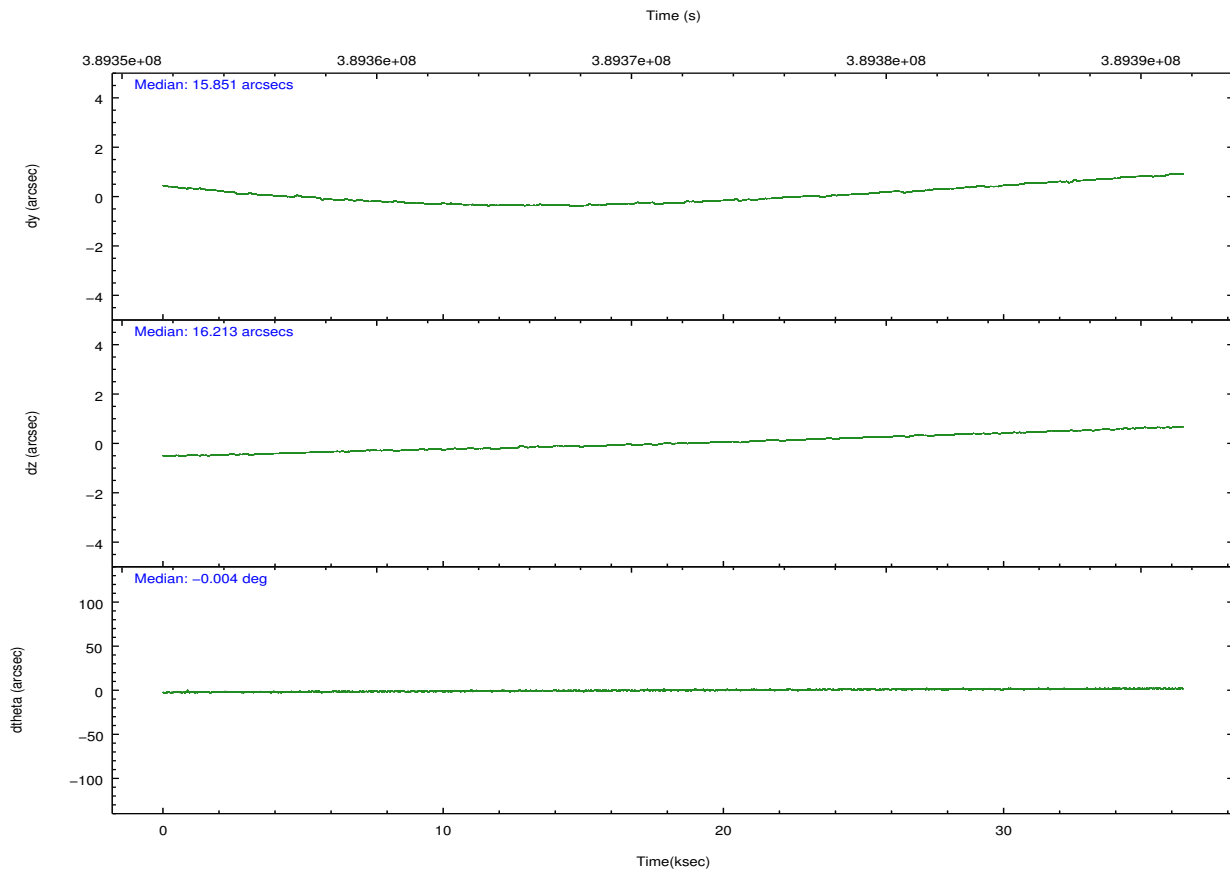
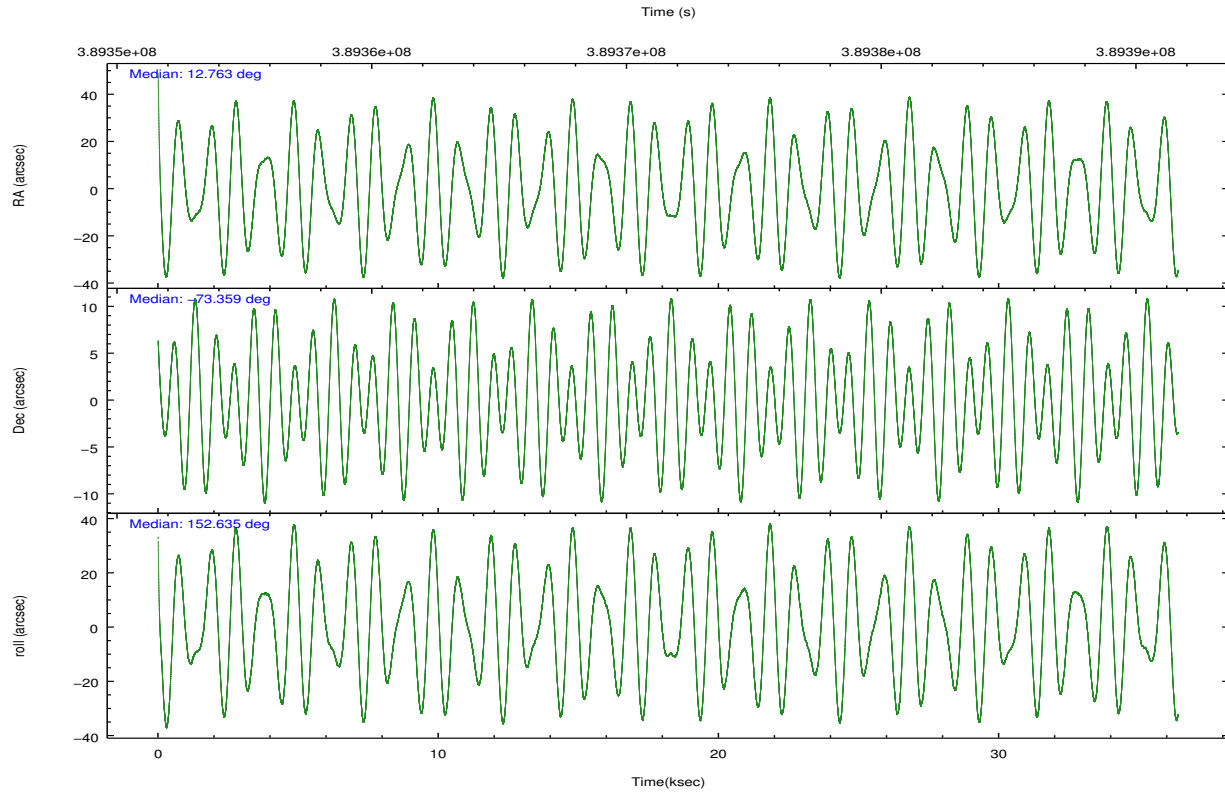
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	11983	8879	13790	16761
	4%	3%	5%	6%
grade 1 events	153	129	234	380
	0%	0%	0%	0%
grade 2 events	6553	5379	6706	29782
	2%	2%	2%	11%
grade 3 events	2770	2612	3089	12600
	1%	1%	1%	4%
grade 4 events	2837	2707	2911	12788
	1%	1%	1%	4%
grade 5 events	7802	9270	9261	27184
	3%	3%	3%	10%
grade 6 events	4715	4792	5749	63651
	1%	2%	2%	24%
grade 7 events	213240	205196	210805	101544
	85%	85%	83%	38%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	12.857587	12.7622443508327	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.357044	-73.35869685284101	Alternating exposures requested	N	N
[deg] Pointing Roll	152.575128	152.640409795839	[s] Primary exposure time	0.000000	3.1
[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			
[s] Observation start time (MET)	389354440.184000	389352564.52746			
Observation start date	2010-05-04T09:59:34	2010-05-04T09:29:24			
[s] Observation end time (MET)	389389840.184000	389390425.46689			
Observation end date	2010-05-04T19:49:34	2010-05-04T20:00:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



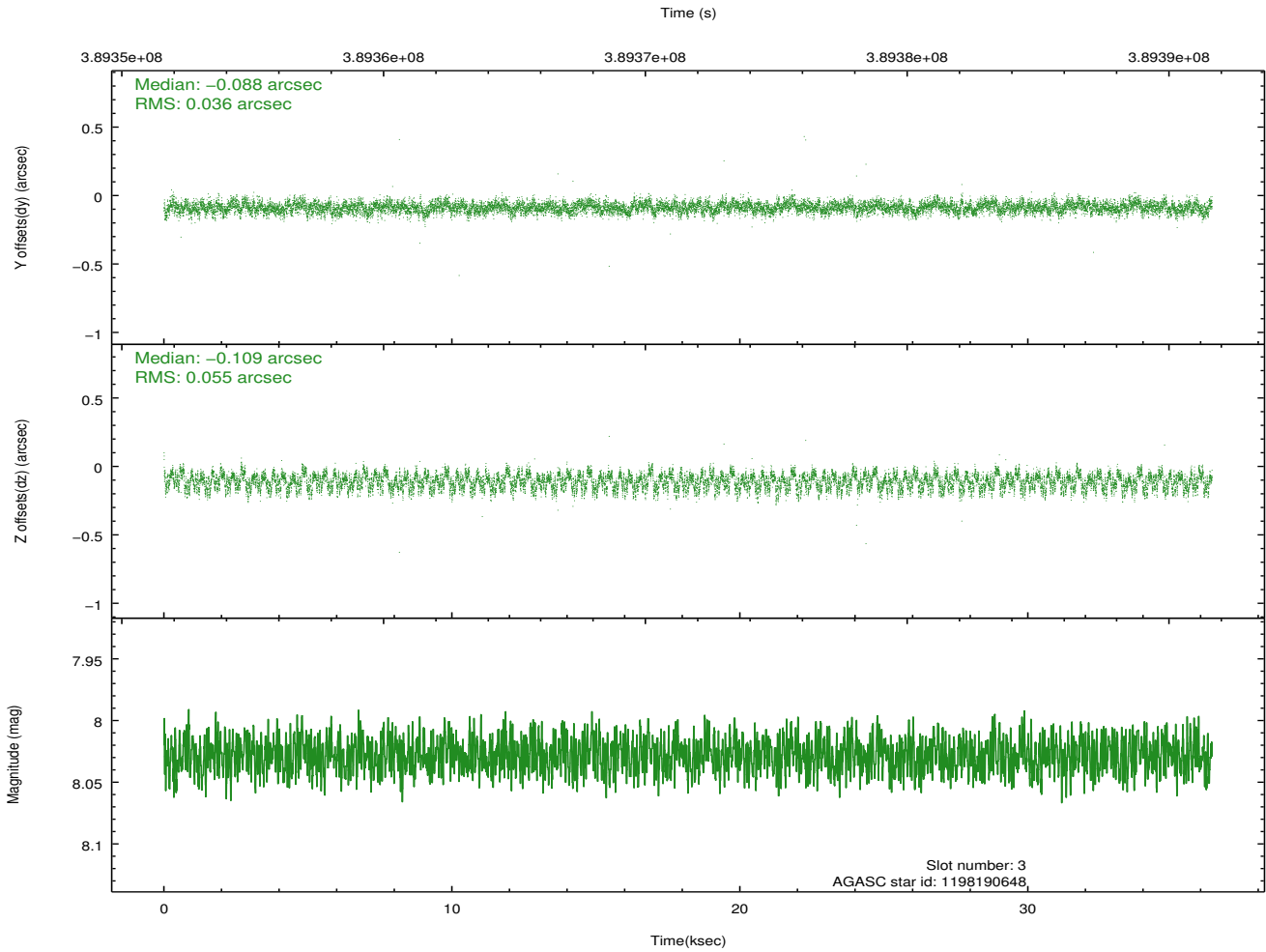
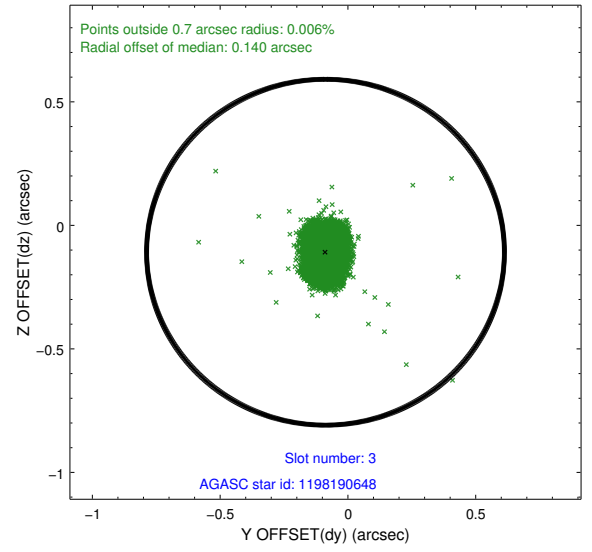
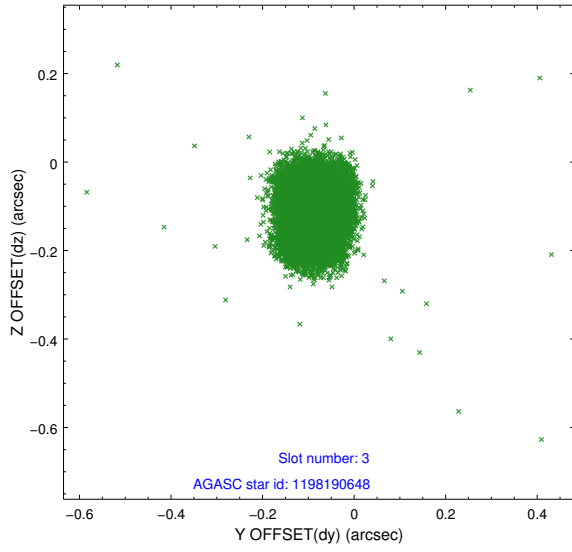


### Slot Statistics

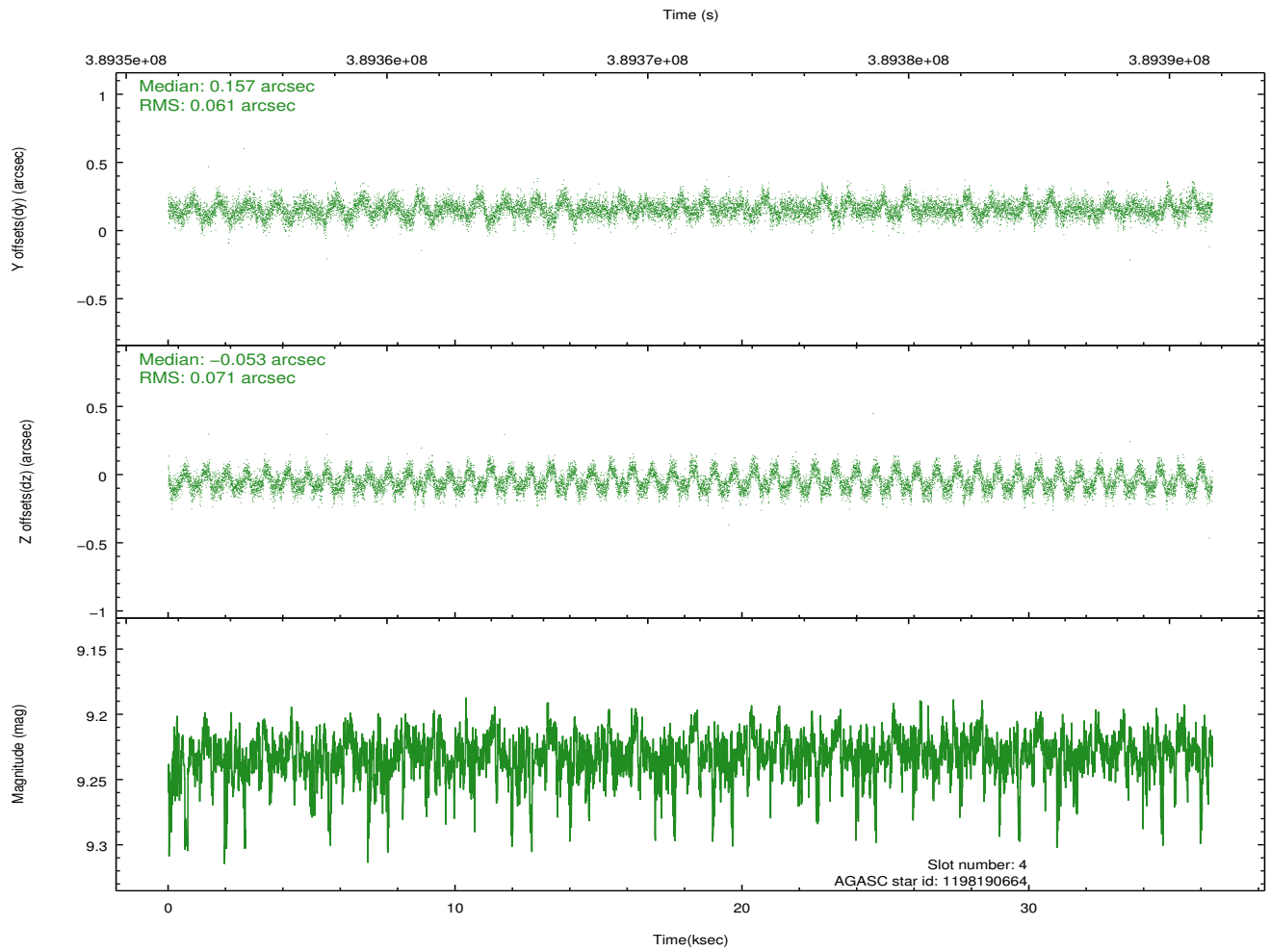
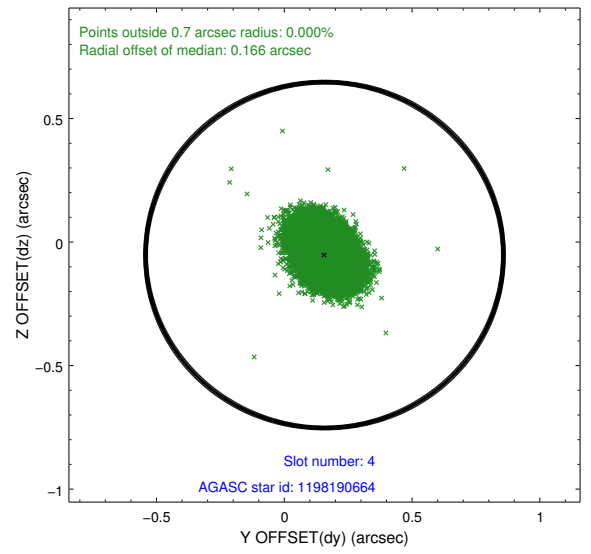
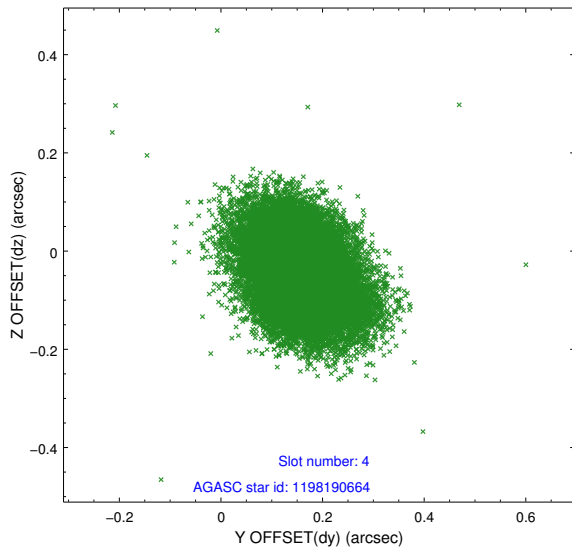
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	8876	-0.098	-0.031	0.013	0.025	0.000000	0.000000	-769.02	-1737.69
1	FID	ACIS-S-4	6.98	8876	0.203	0.055	0.011	0.020	0.000000	0.000000	2144.54	170.84
2	FID	ACIS-S-5	7.01	8875	-0.136	-0.017	0.011	0.022	0.000000	0.000000	-1821.86	164.49
3	GUIDE	1198190648	8.03	17749	-0.088	-0.109	0.069	0.109	12.344115	-73.478663	263.94	632.98
4	GUIDE	1198190664	9.23	17730	0.157	-0.053	0.100	0.158	14.057016	-73.825958	-1850.72	955.38
5	GUIDE	1198191824	9.31	17737	0.034	-0.034	0.115	0.189	11.519918	-73.478175	1007.66	1031.53
6	GUIDE	1198192408	9.41	17673	-0.114	0.258	0.113	0.184	12.860639	-72.678863	1121.91	-2167.96
7	GUIDE	1198192456	8.58	17743	0.014	-0.061	0.087	0.135	13.422921	-73.869405	-1352.37	1379.10

## 2.4 Star Slots

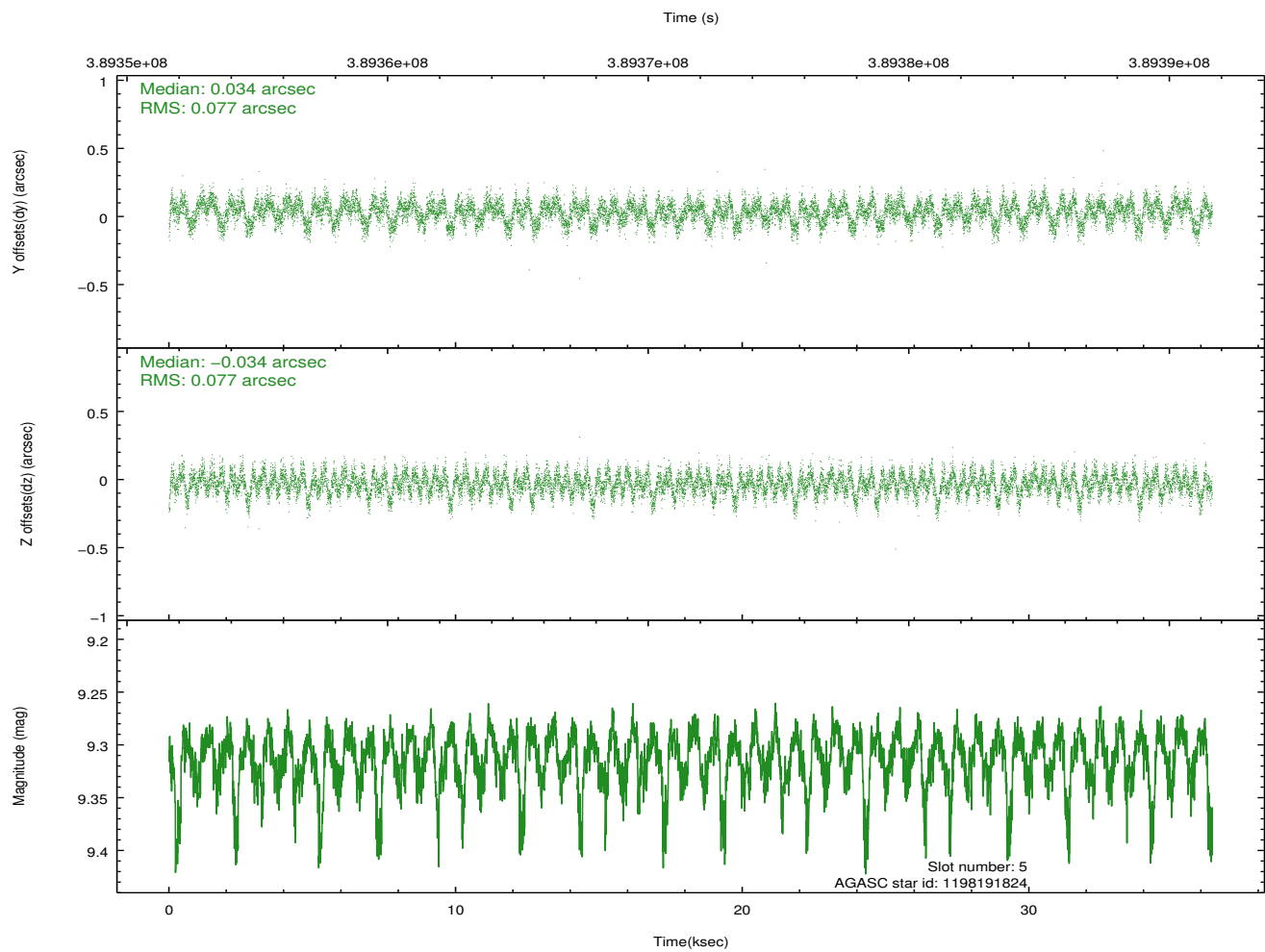
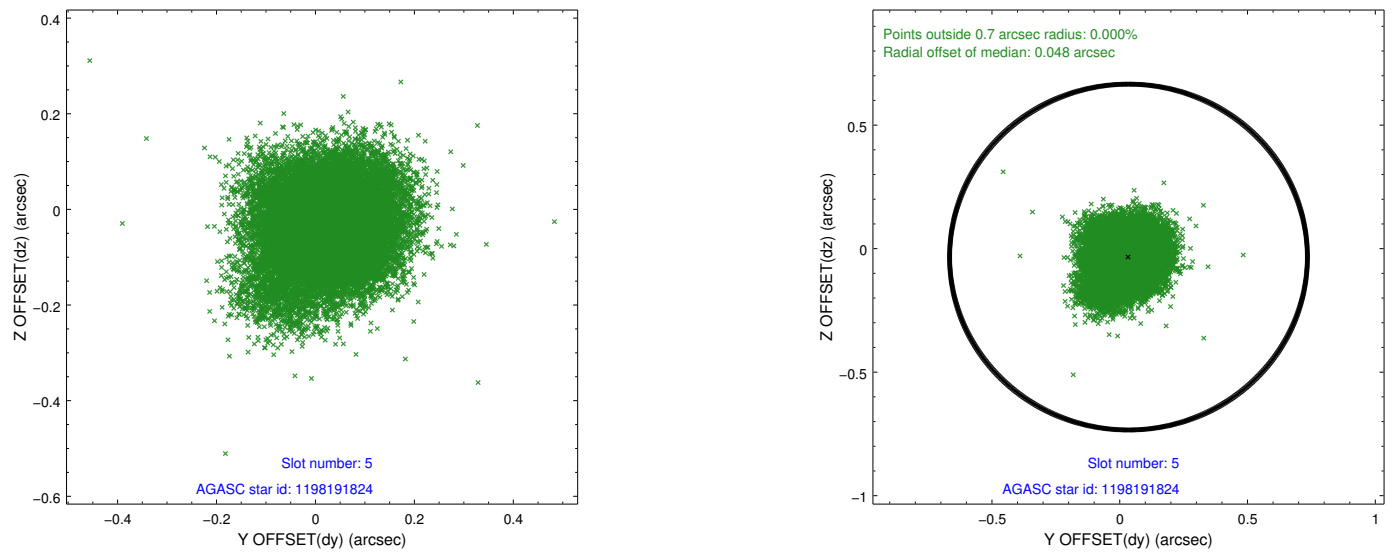
### 2.4.1 Slot 3



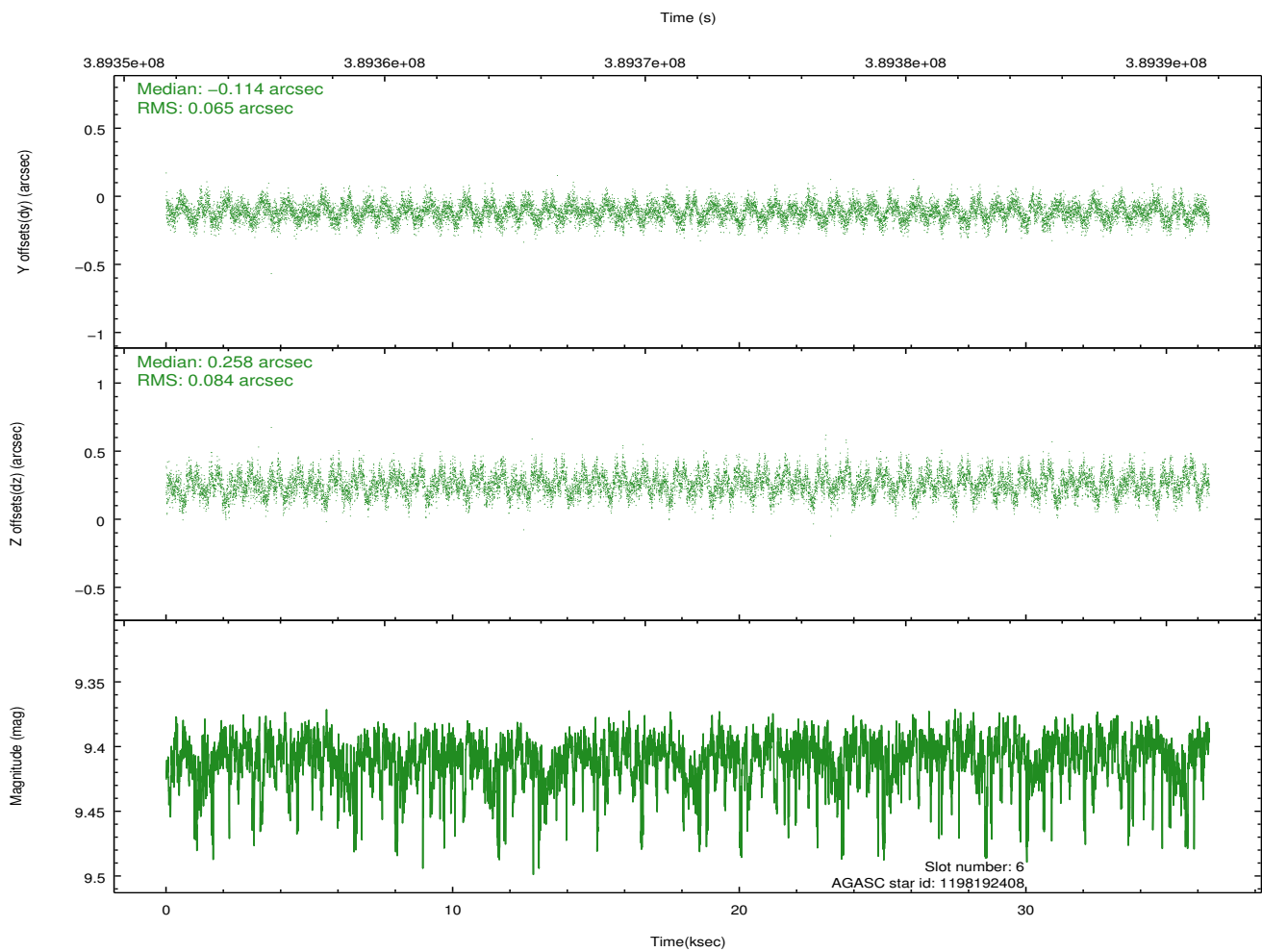
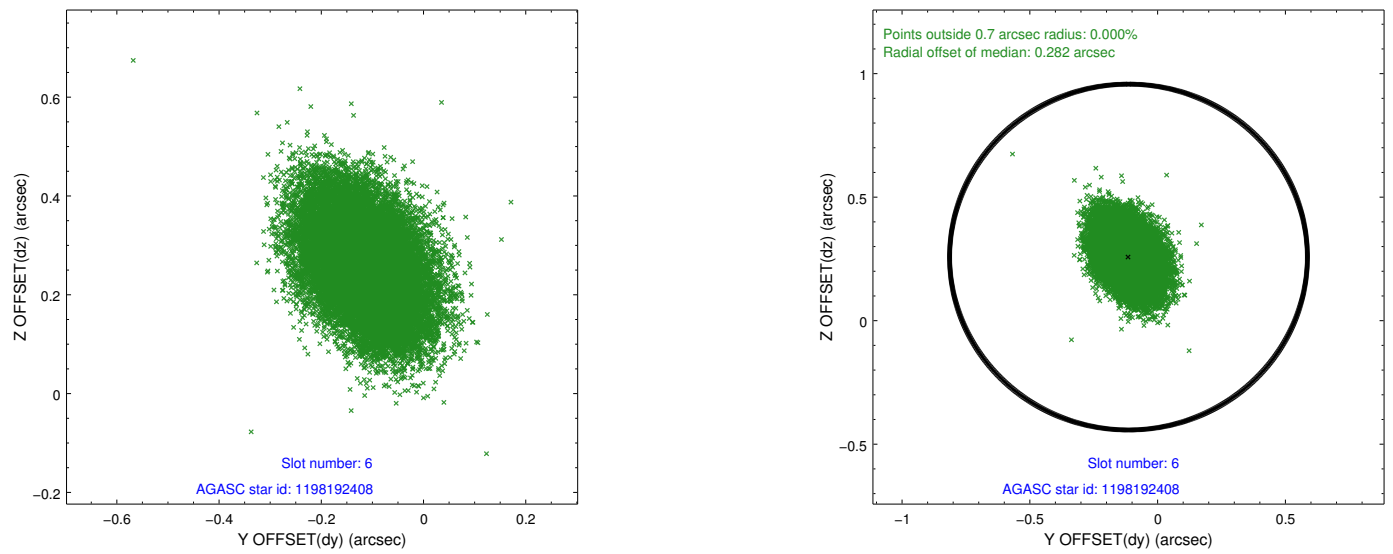
## 2.4.2 Slot 4



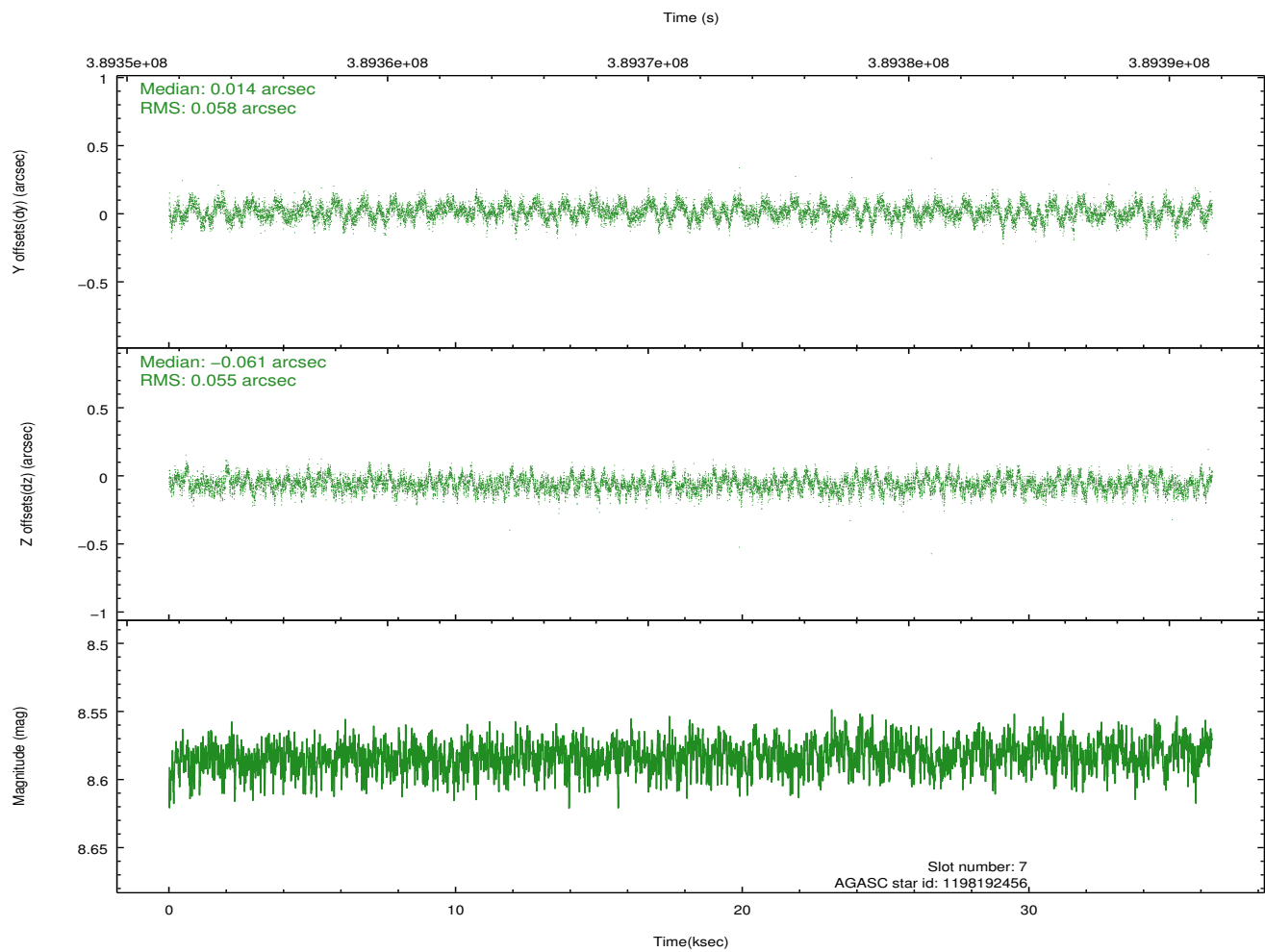
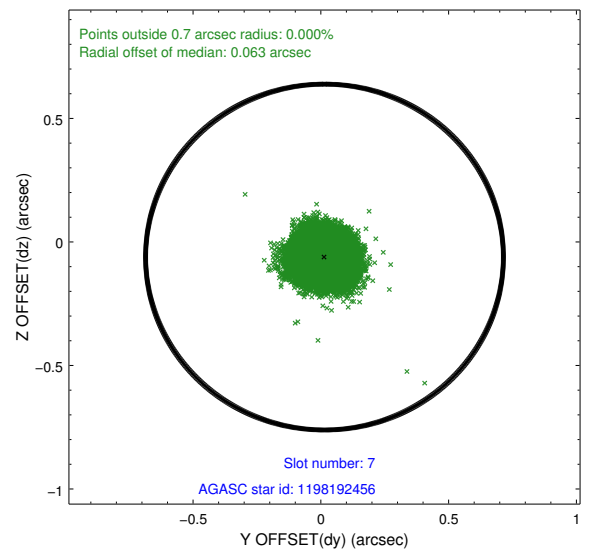
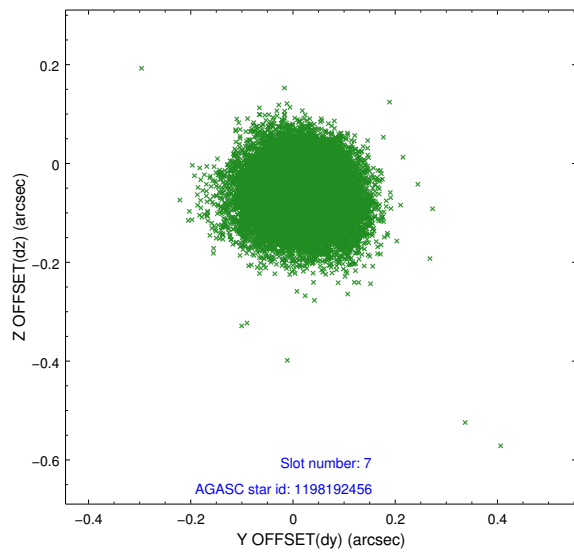
### 2.4.3 Slot 5



## 2.4.4 Slot 6

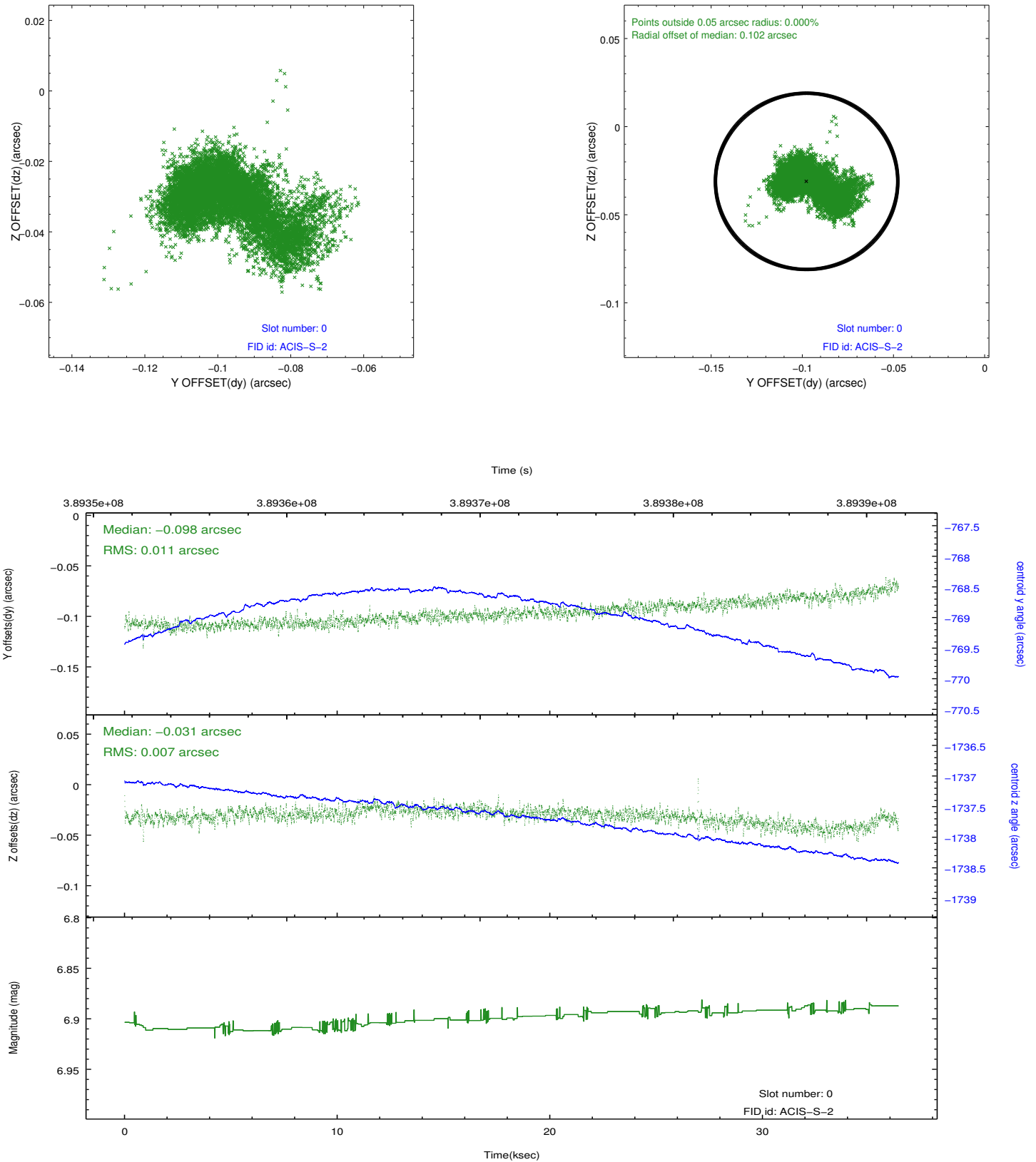


## 2.4.5 Slot 7

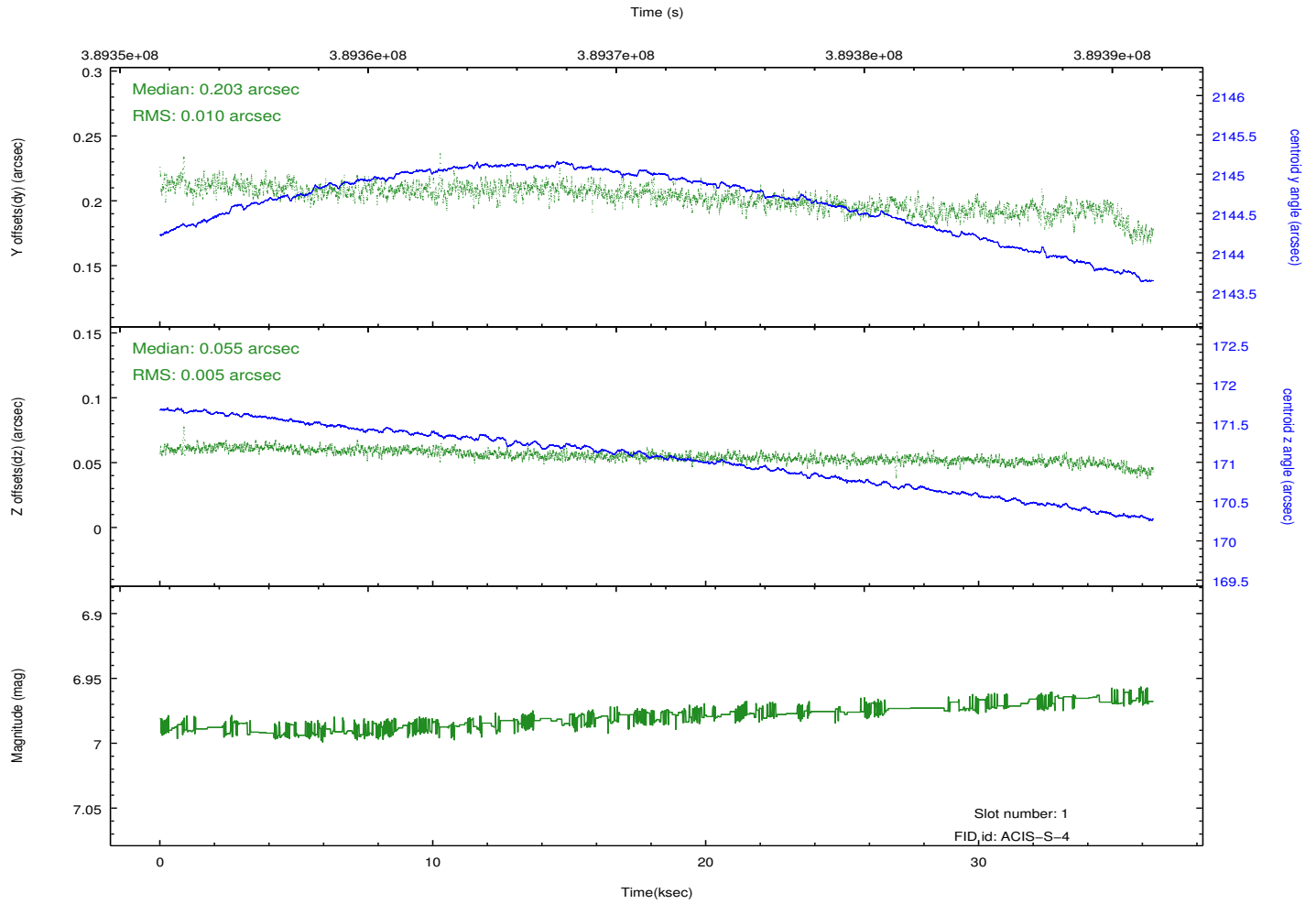
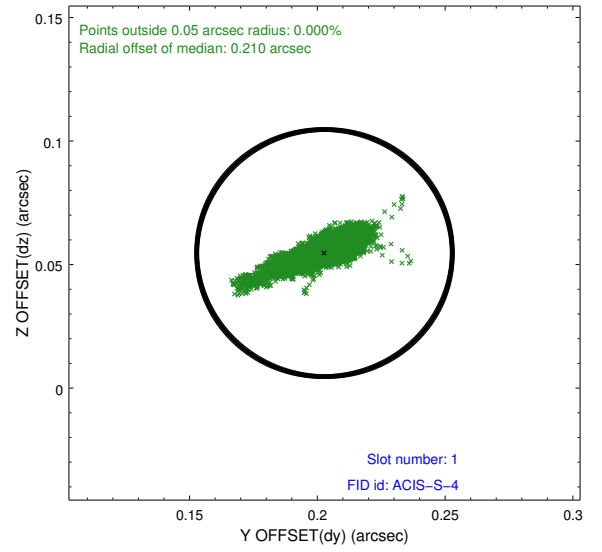
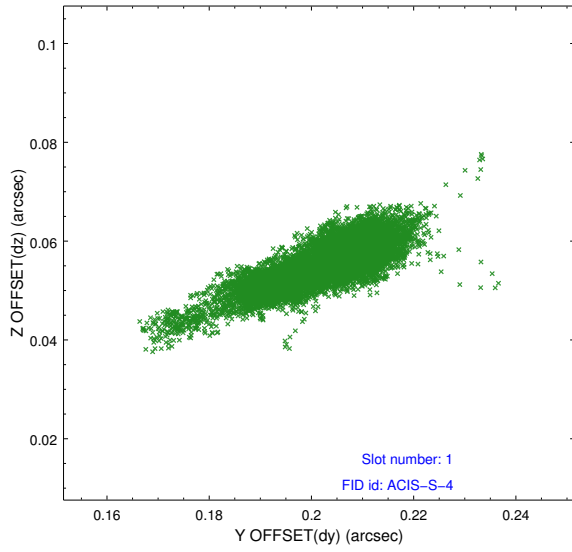


## 2.5 FID Slots

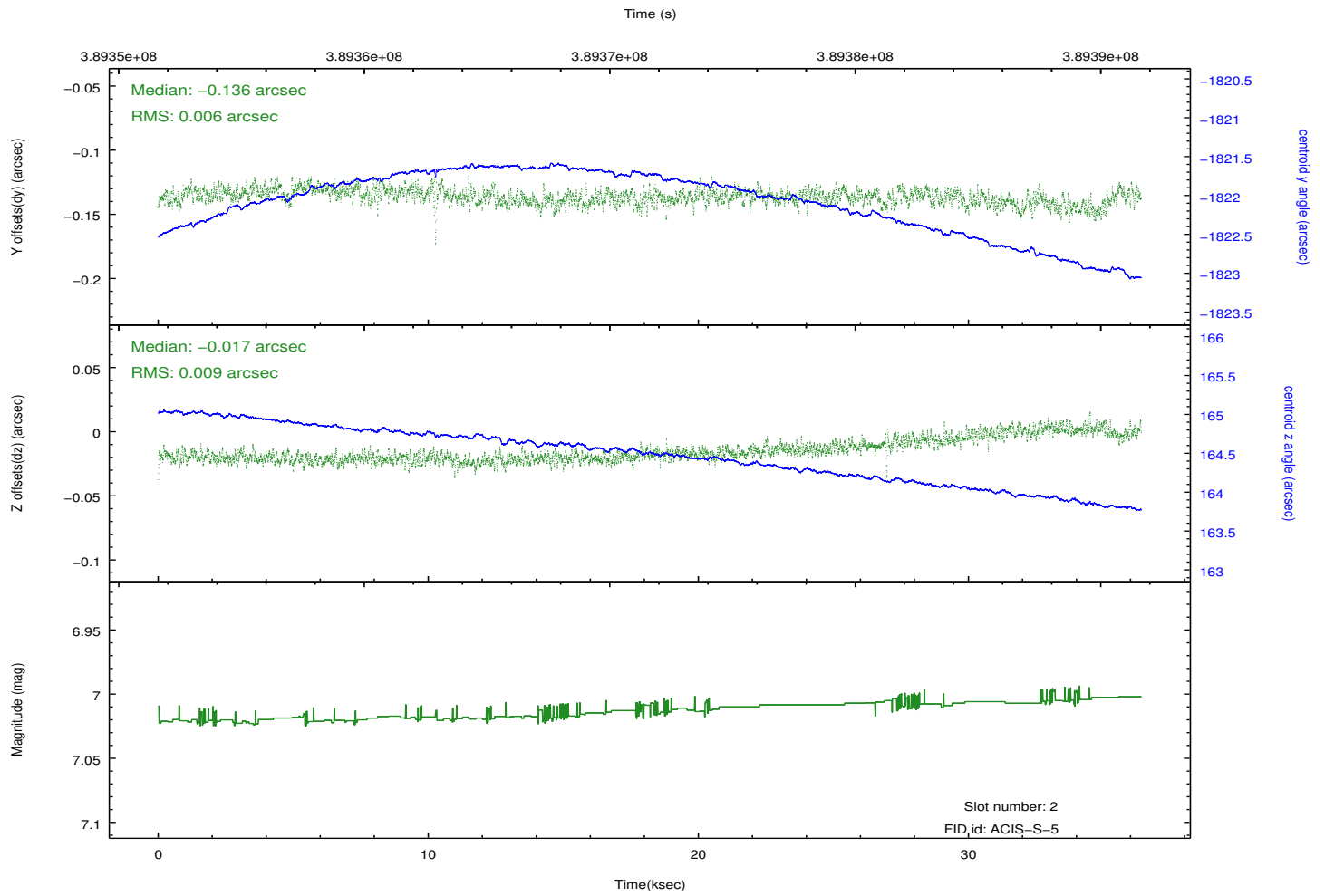
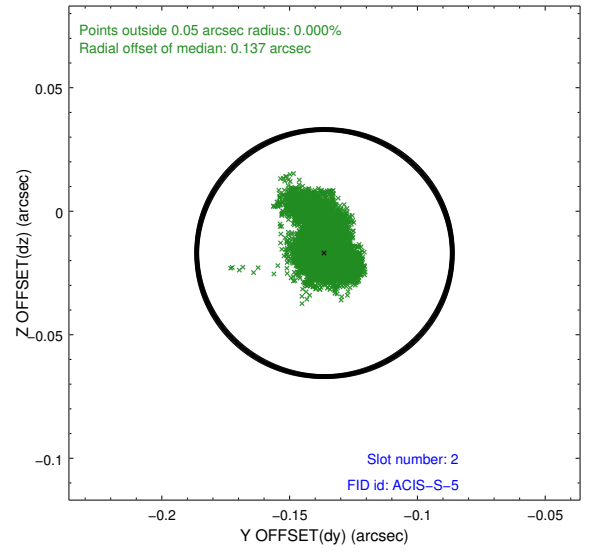
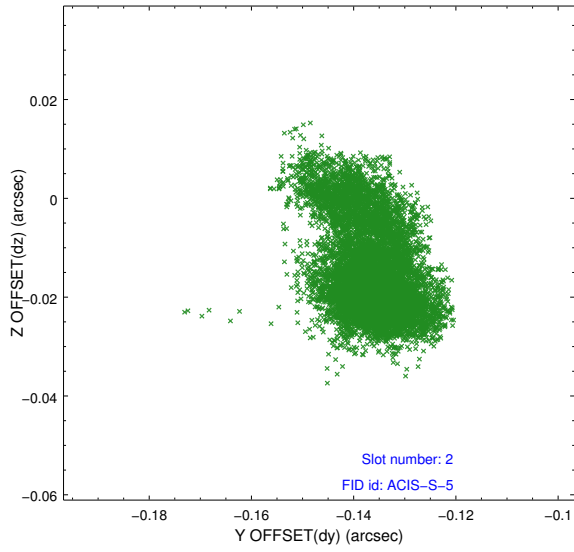
### 2.5.1 Slot 0



## 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)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.454700272679

### **A.2 Comments**