

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3394 - L2 Version 3  
Chandra X-Ray Center

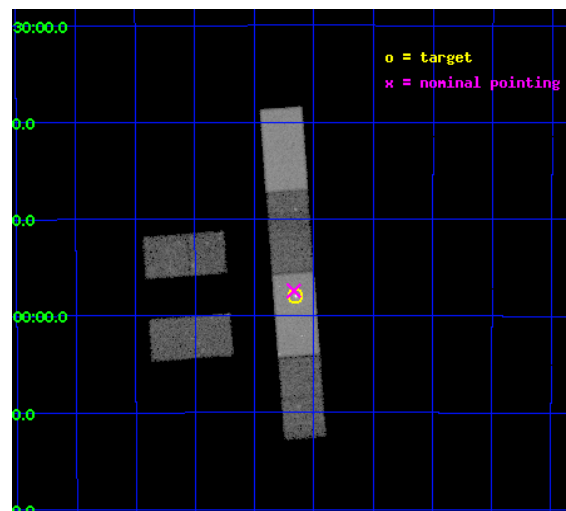
L2 Processing Date : Sep 29 2012

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# 1 Front

seq_num	600293	Sequence number
obs_id	3394	Observation id
title	ORIGIN OF THE HARD EMISSION IN THE OPTICALLY INACTIVE E GALAXY IC4296 FROM HIGH RESOLUTION X-RAY AND RADIO OBSERVATIONS	Proposal titl
observer	DR. SILVIA PELLEGRINI	Principal investigator
object	IC4296	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	204.164042	Observer's specified target RA [deg]
dec_targ	-33.966528	Observer's specified target Dec [deg]
ra_nom	204.16697374702	Nominal RA [deg]
dec_nom	-33.957125391479	Nominal Dec [deg]
roll_nom	85.721264252303	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25401.47062631	Sum of GTIs [s]
livetime	24835.227440663	Livetime [s]
ontime2	25403.352656484	Sum of GTIs [s]
ontime3	25401.347506315	Sum of GTIs [s]
ontime5	25401.429586306	Sum of GTIs [s]
ontime6	25403.229536489	Sum of GTIs [s]
ontime7	25401.47062631	Sum of GTIs [s]
ontime8	25401.30643639	Sum of GTIs [s]
l2events	159681	Number of level 2 events

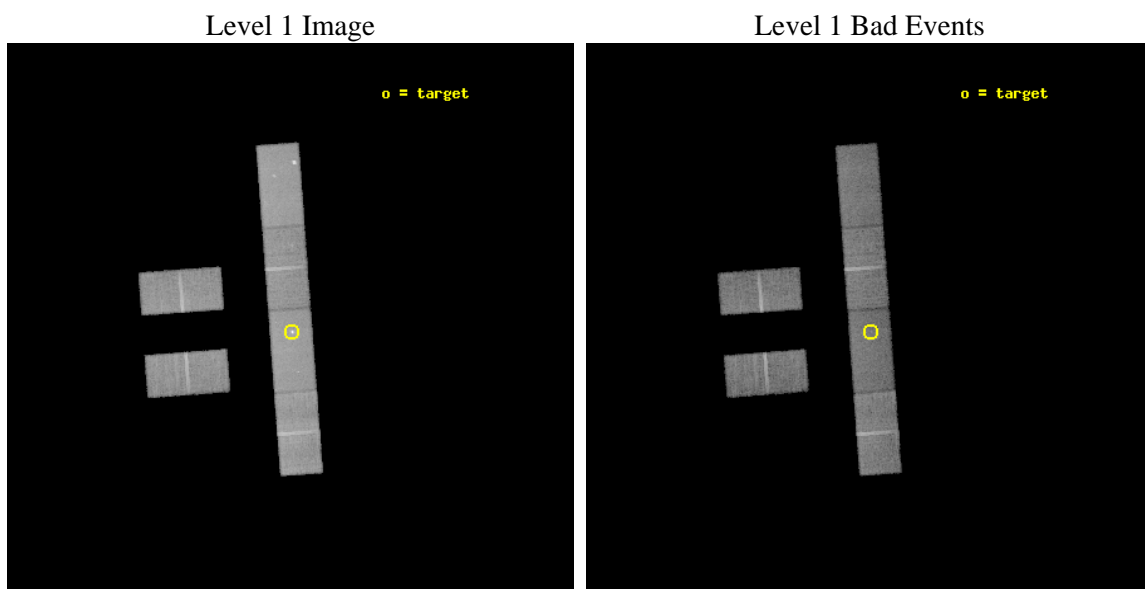




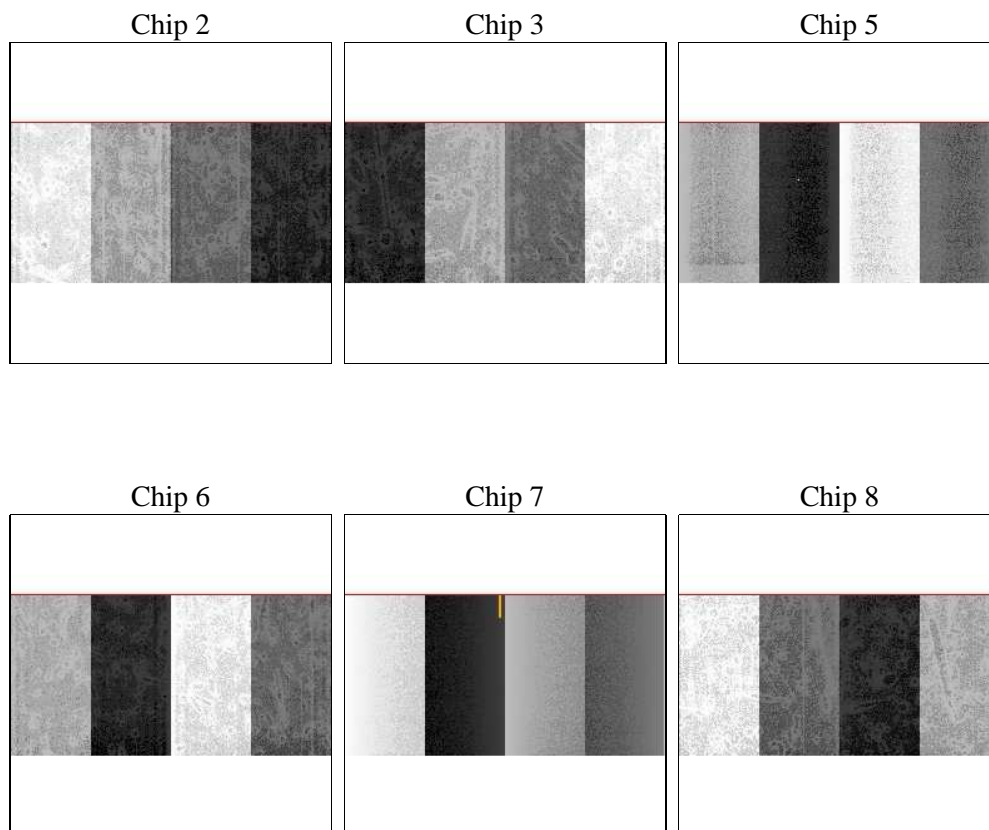
## 2 OBI

### 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	25401.47062631	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	25403.352656484	Sum of GTIs [s]
date	2012-09-29T02:49:20	Date and time of file creation	ontime3	25401.347506315	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	25401.429586306	Sum of GTIs [s]
			ontime6	25403.229536489	Sum of GTIs [s]
			ontime7	25401.47062631	Sum of GTIs [s]
			ontime8	25401.30643639	Sum of GTIs [s]
			l1events	661269	Number of level 1 events

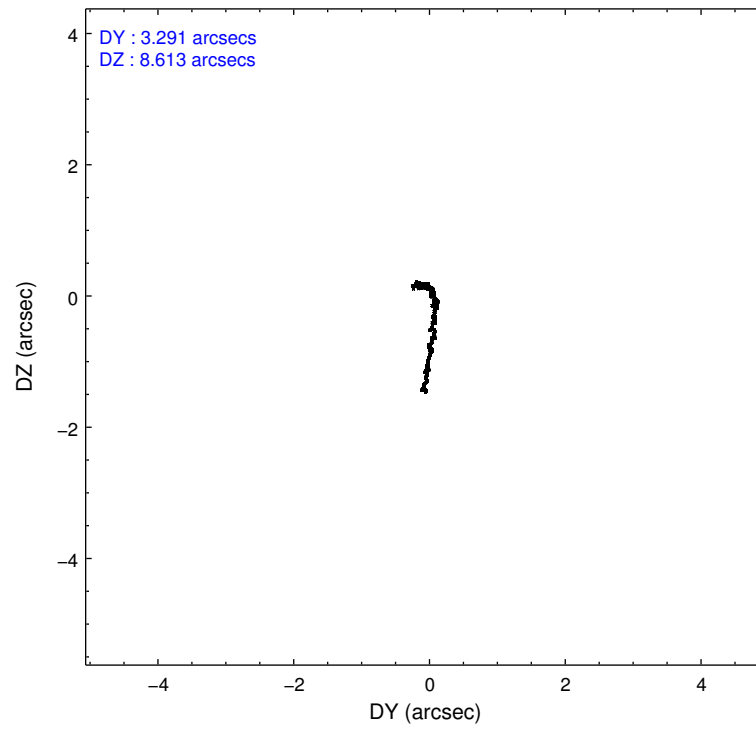
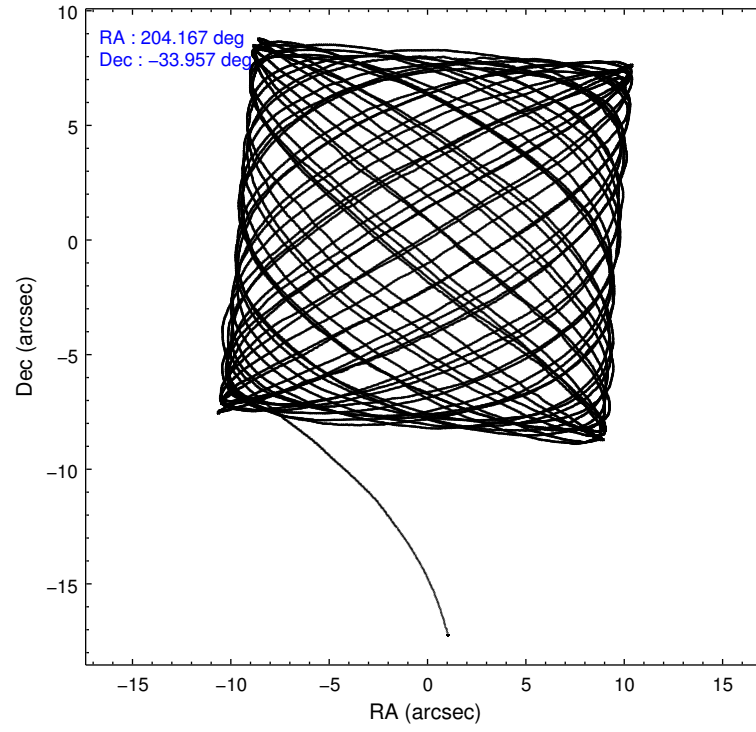
### 2.1.4 Events

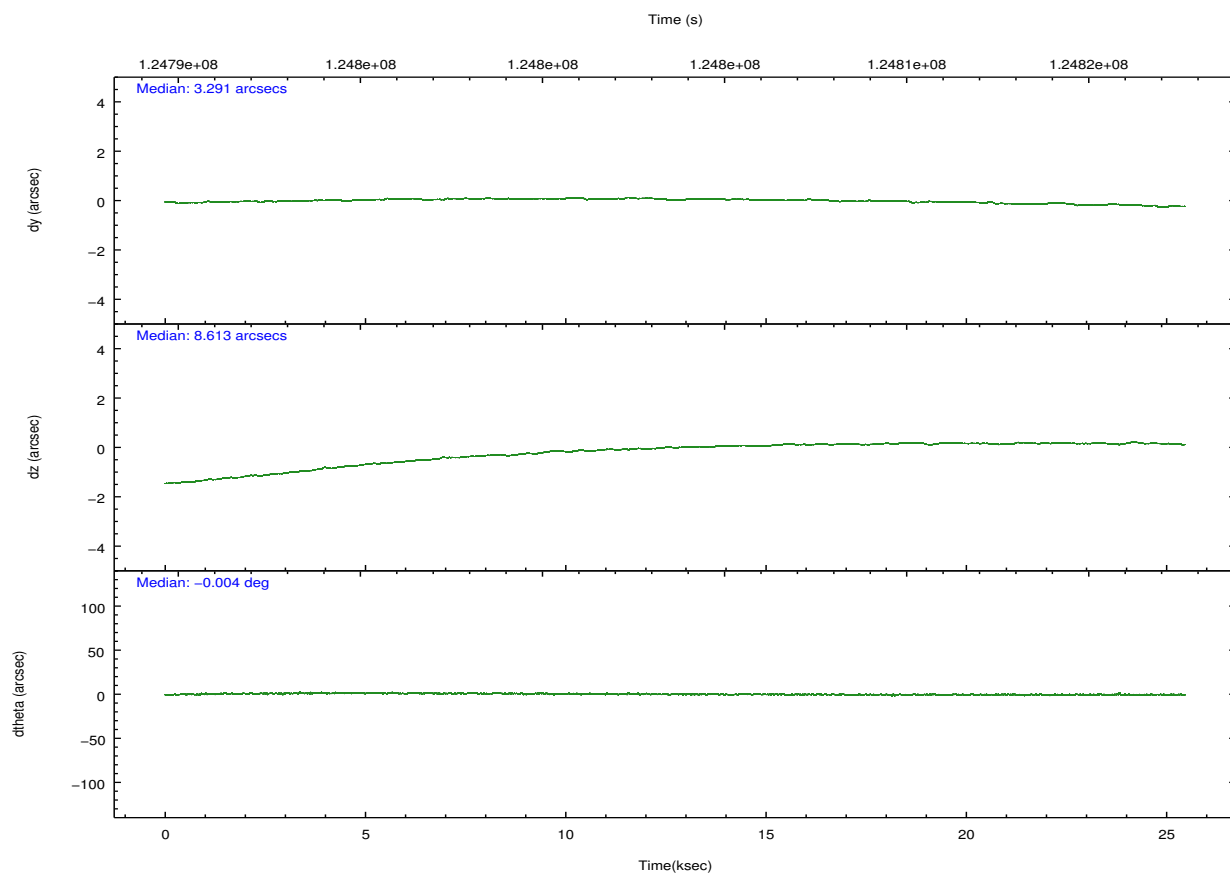
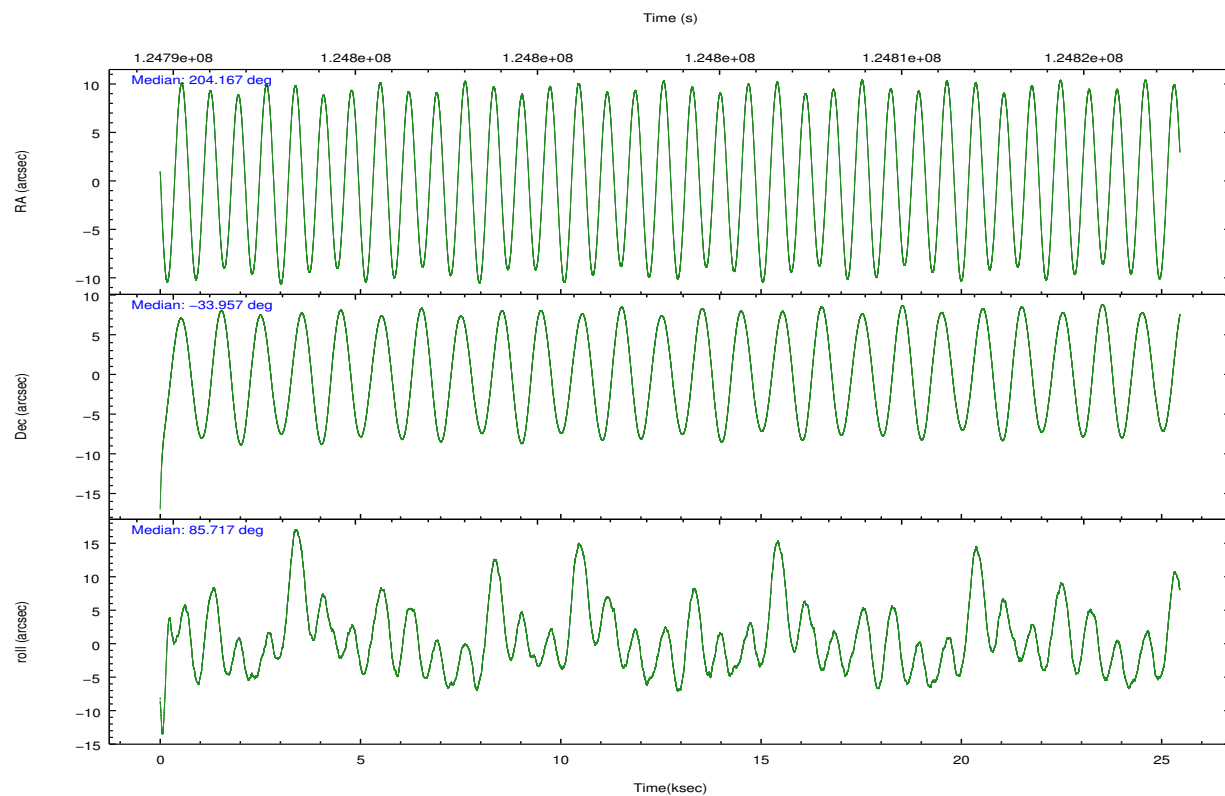
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	98253	91486	128149	95587	125344	122450	grade 0 events	5570	5189	8860	5931	8740	10483
rejected events	85520	79204	66814	82002	65716	92034		5%	5%	6%	6%	6%	8%
rejected %	87%	86%	52%	85%	52%	75%	grade 1 events	26	39	222	46	127	63
								0%	0%	0%	0%	0%	0%
							grade 2 events	2677	2657	17007	2776	12587	6129
								2%	2%	13%	2%	10%	5%
							grade 3 events	1115	1229	3121	1342	5925	3642
								1%	1%	2%	1%	4%	2%
							grade 4 events	1250	1146	3027	1211	5841	3226
								1%	1%	2%	1%	4%	2%
							grade 5 events	3106	3447	9816	3765	10956	4608
								3%	3%	7%	3%	8%	3%
							grade 6 events	2122	2062	29324	2327	26537	6940
								2%	2%	22%	2%	21%	5%
							grade 7 events	82387	75717	56772	78189	54631	87359
								83%	82%	44%	81%	43%	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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	204.181587	204.1669737470187	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-33.981533	-33.95712539147851	Subarray start row	257	257
[deg] Pointing Roll	85.572805	85.72126425230302	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	124791368.184000	124790269.96659			
Observation start date	2001-12-15T08:15:04	2001-12-15T07:57:49			
[s] Observation end time (MET)	124816368.184000	124817415.55518			
Observation end date	2001-12-15T15:11:44	2001-12-15T15:30:15			
Read mode	TIMED	TIMED			

## 2.3 Aspect



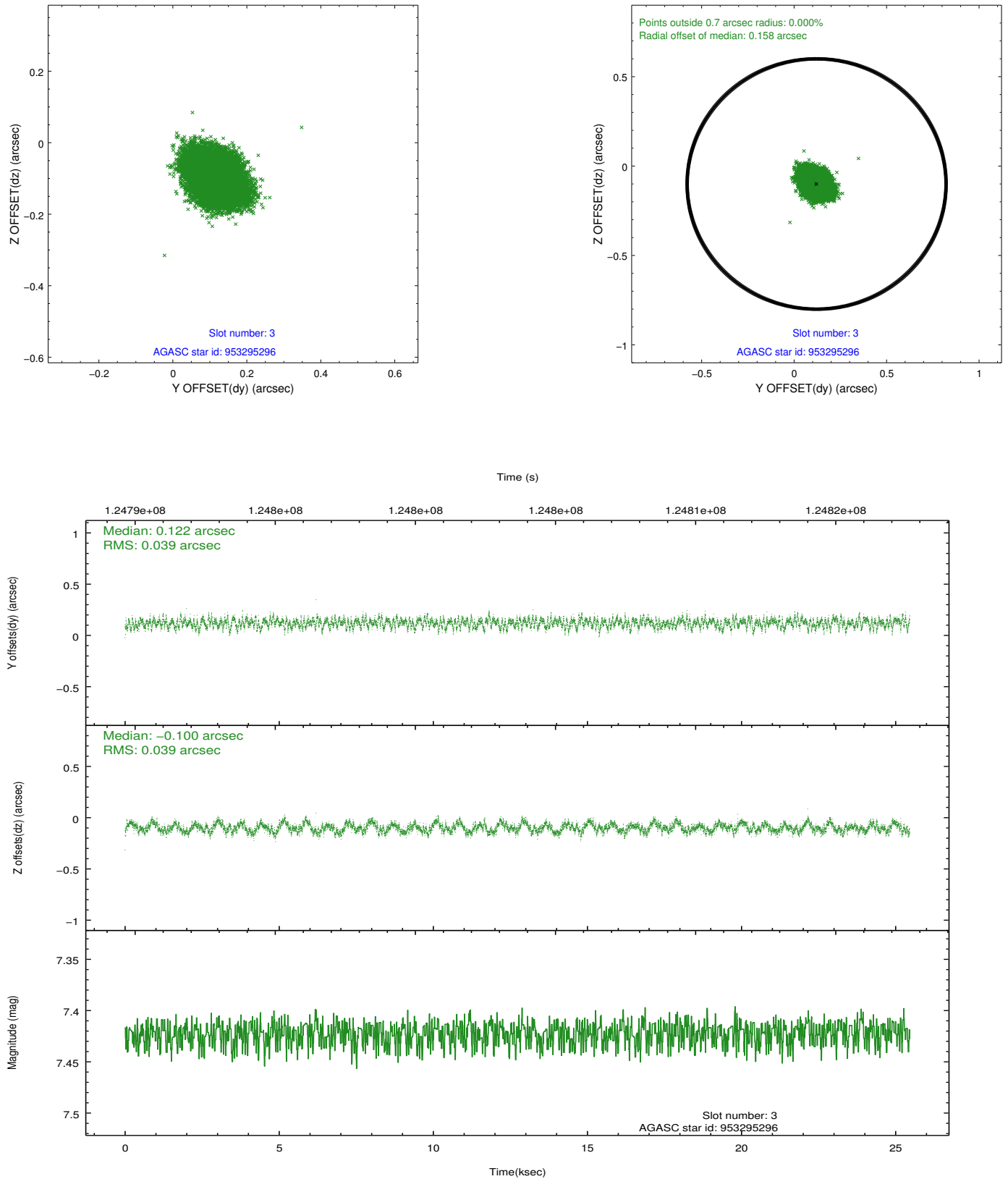


### Slot Statistics

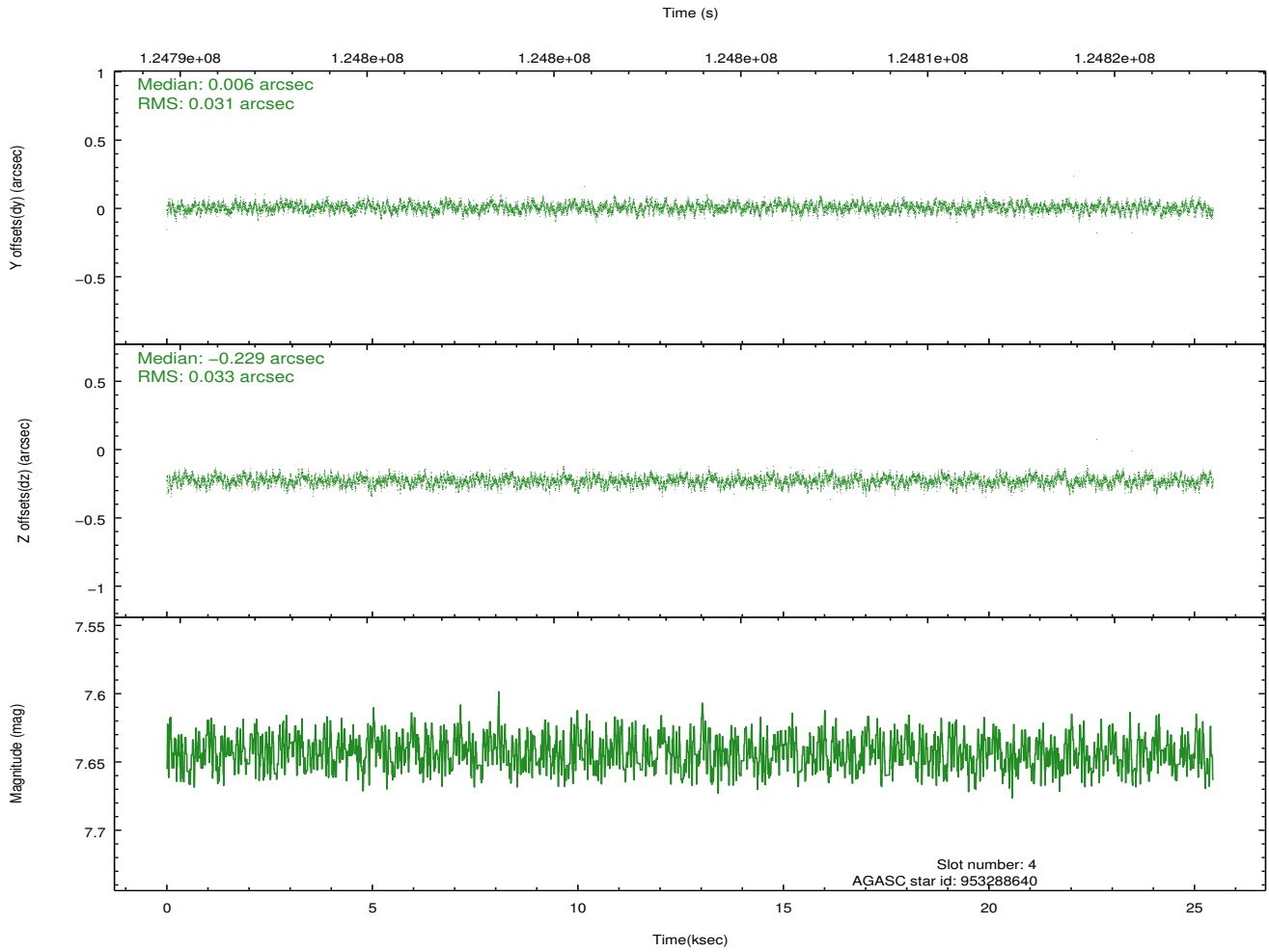
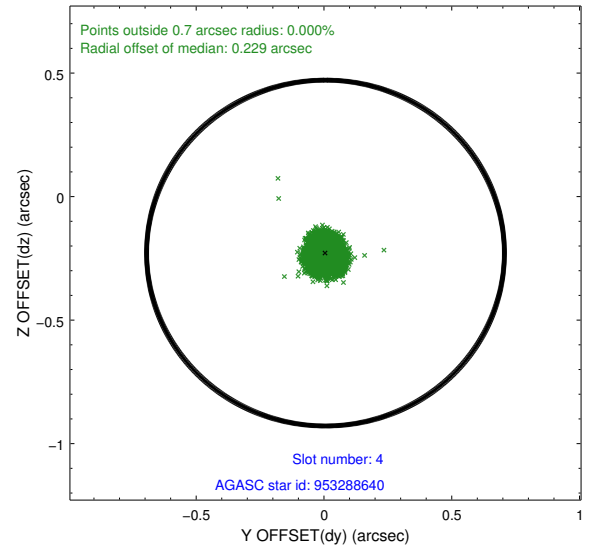
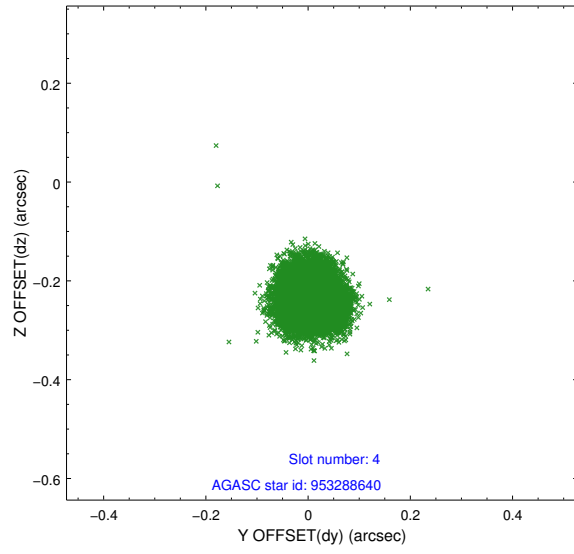
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6209	-0.010	-0.006	0.009	0.016	0.000000	0.000000	-755.94	-1729.58
1	FID	ACIS-S-4	7.20	6208	-0.022	0.006	0.007	0.013	0.000000	0.000000	2157.28	178.79
2	FID	ACIS-S-5	7.24	6208	0.000	0.008	0.008	0.015	0.000000	0.000000	-1808.62	172.60
3	GUIDE	953295296	7.42	12417	0.122	-0.100	0.059	0.095	203.563852	-34.387568	-1603.85	1715.25
4	GUIDE	953288640	7.64	12417	0.006	-0.229	0.048	0.078	203.543121	-34.069013	-466.42	1872.45
5	GUIDE	952779024	8.67	12414	-0.159	-0.058	0.056	0.091	204.034661	-33.479119	1769.44	578.66
6	GUIDE	953296432	9.00	12414	0.135	0.124	0.076	0.121	204.411860	-34.306423	-1112.99	-773.91
7	GUIDE	953430904	9.71	12359	-0.103	0.264	0.099	0.160	204.803338	-33.833276	670.72	-1813.75

## 2.4 Star Slots

### 2.4.1 Slot 3

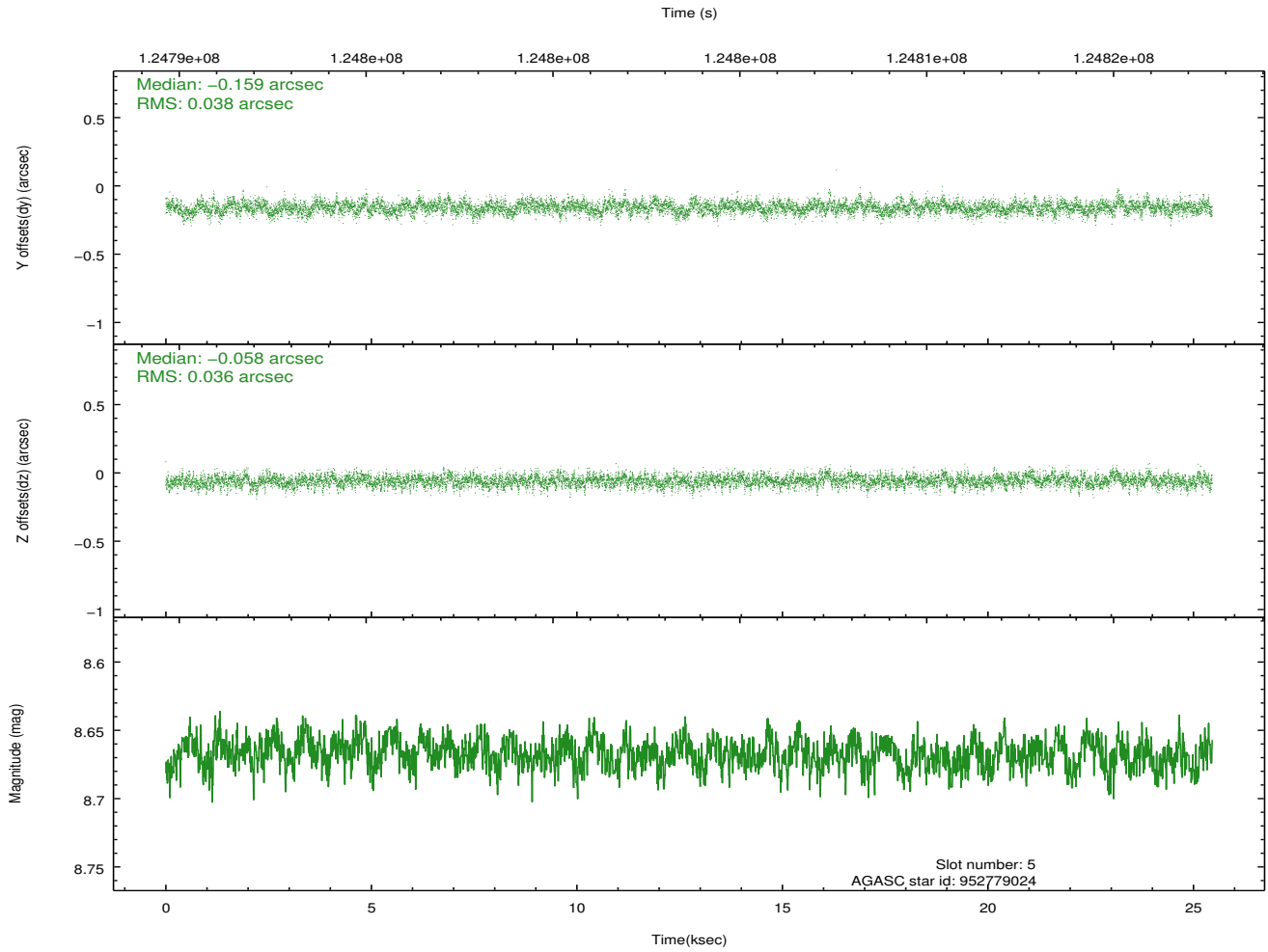
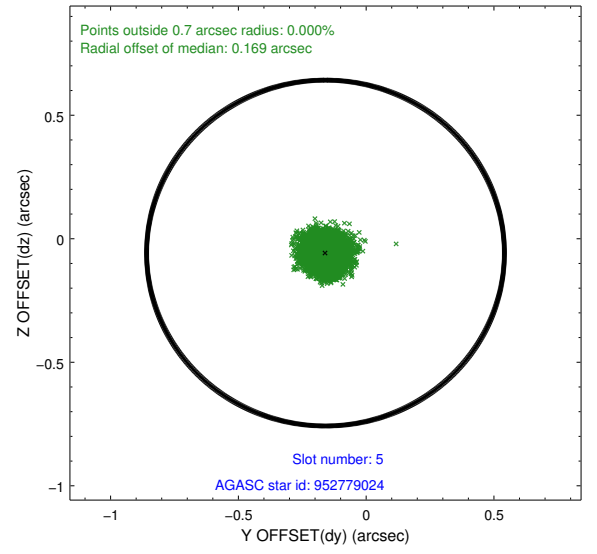
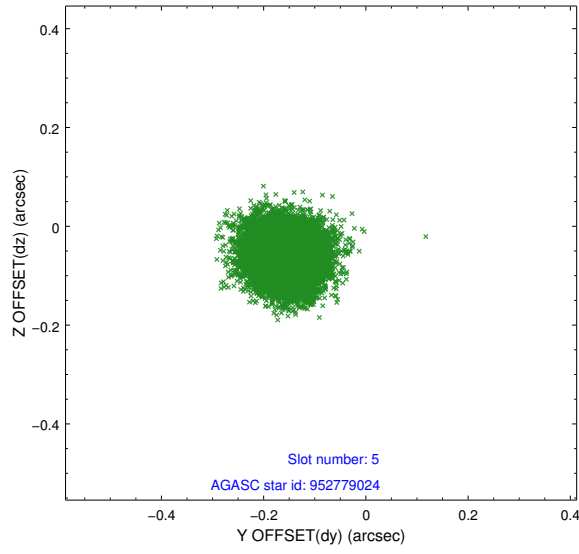


## 2.4.2 Slot 4

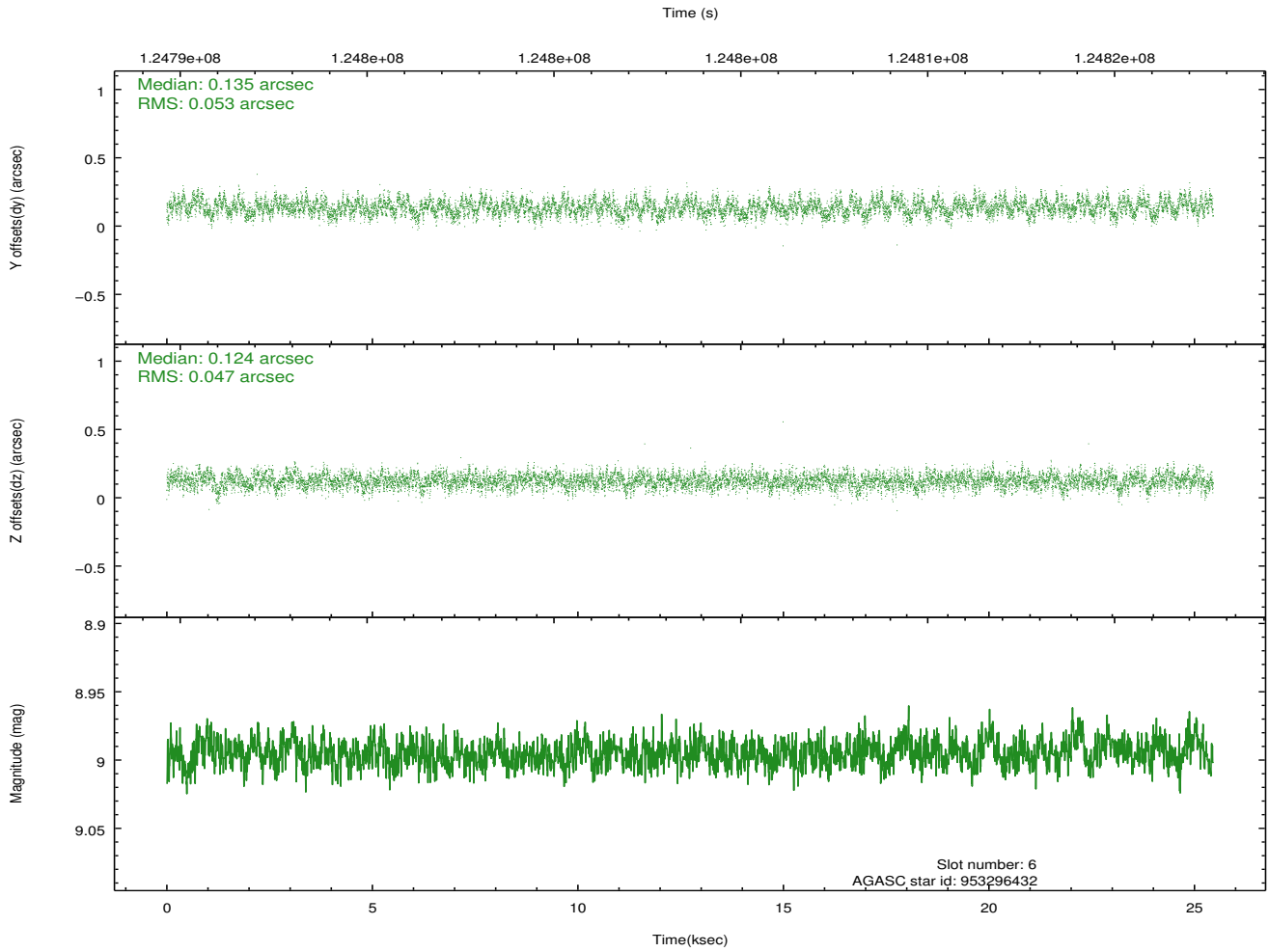
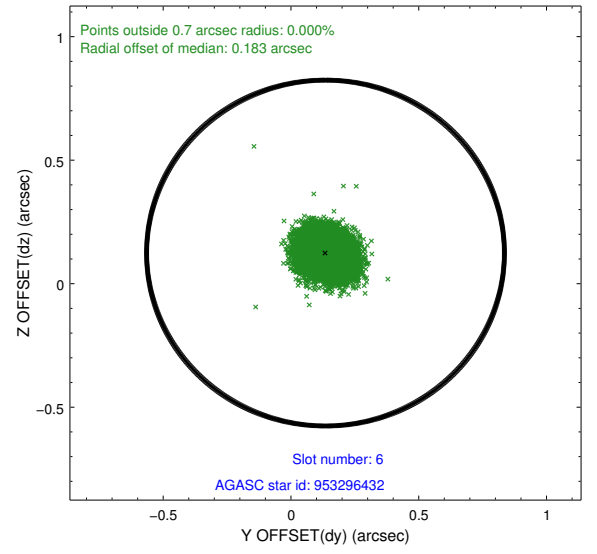
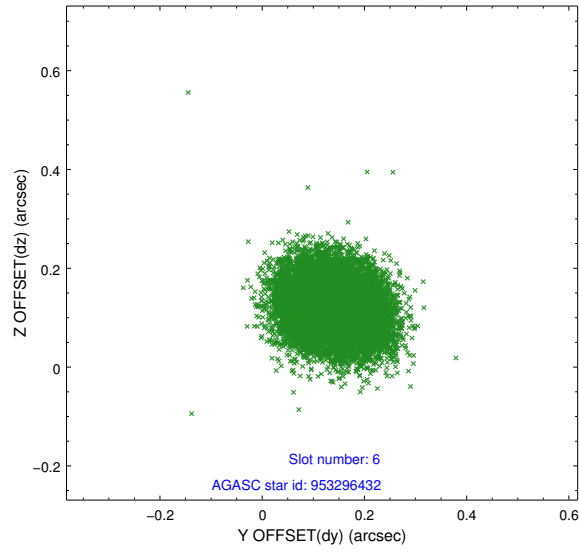




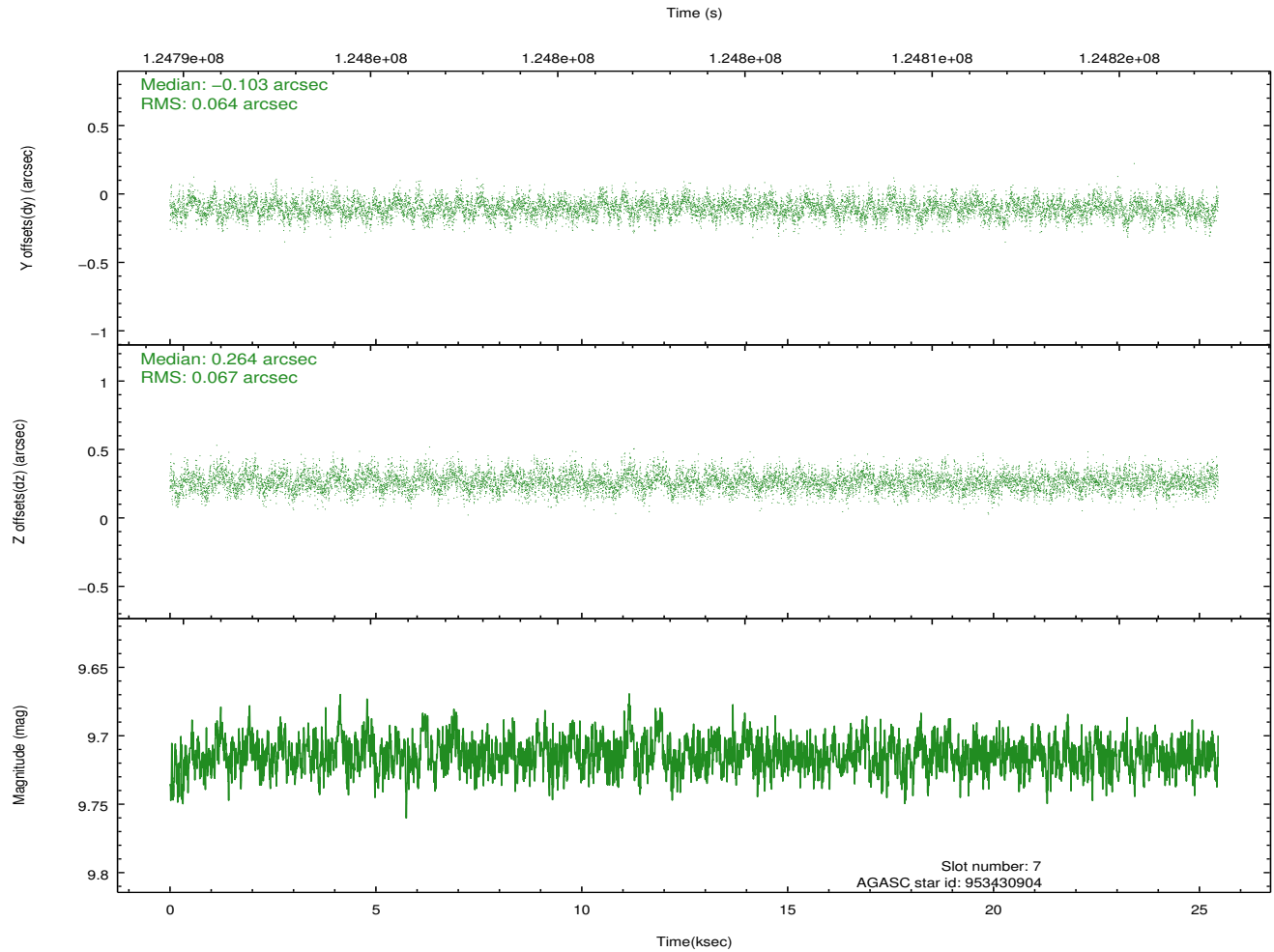
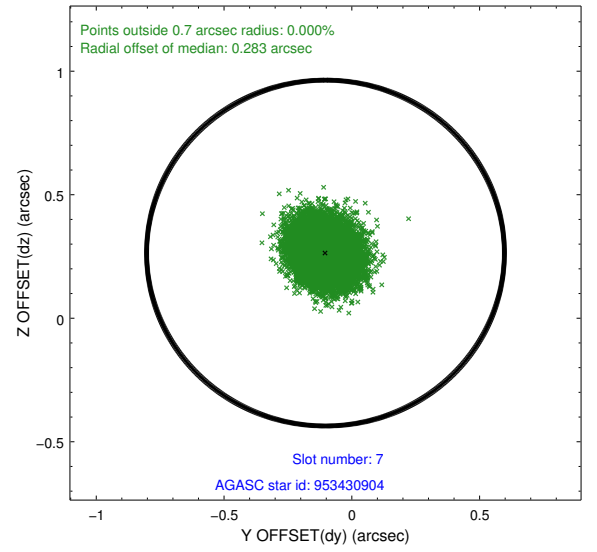
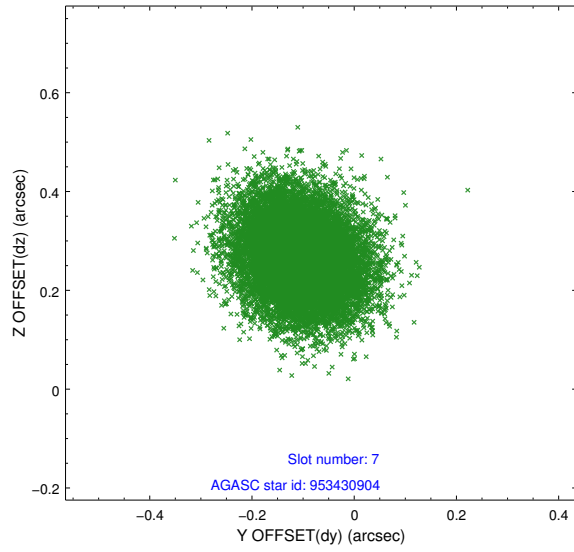
### 2.4.3 Slot 5



## 2.4.4 Slot 6

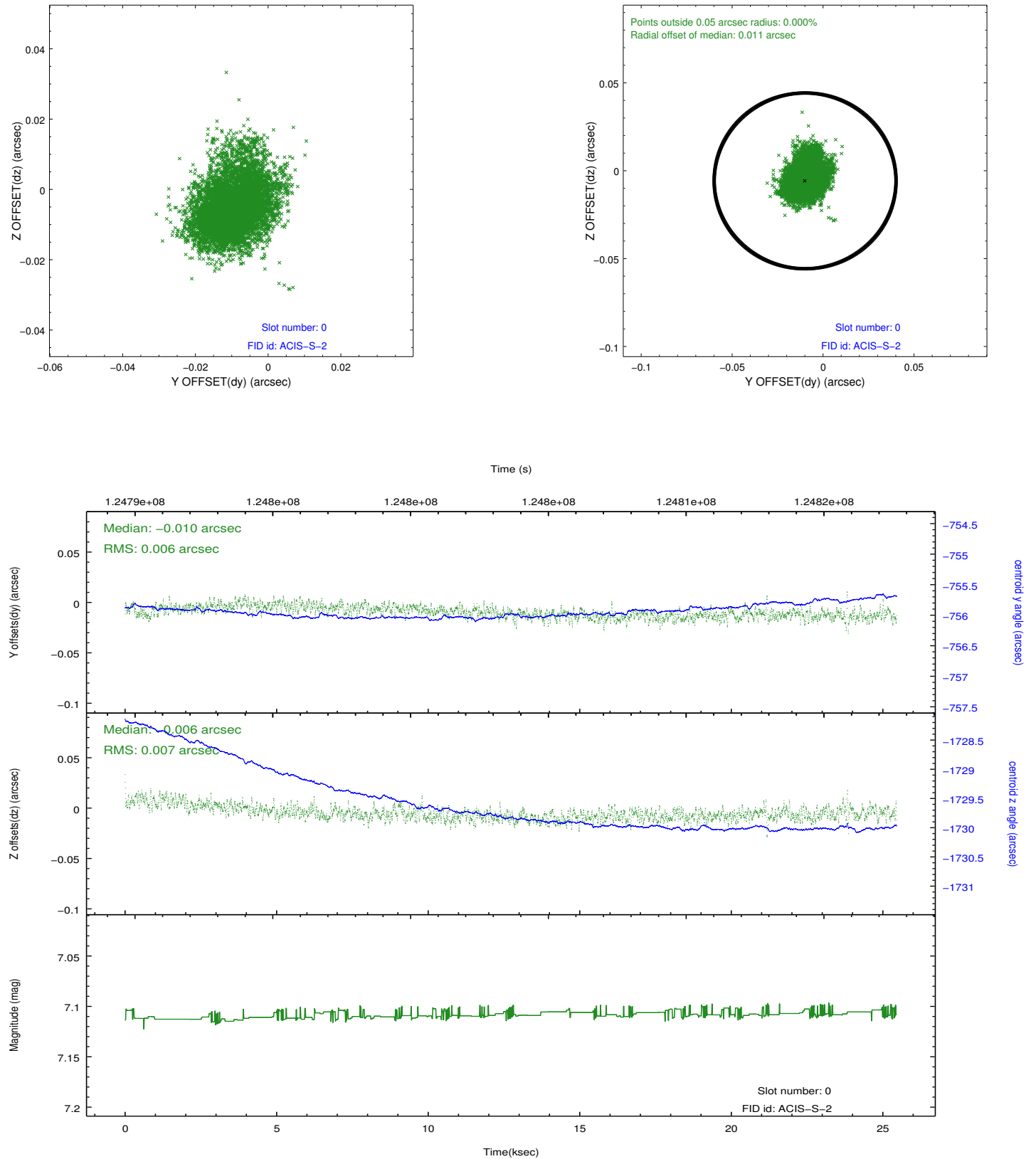


## 2.4.5 Slot 7

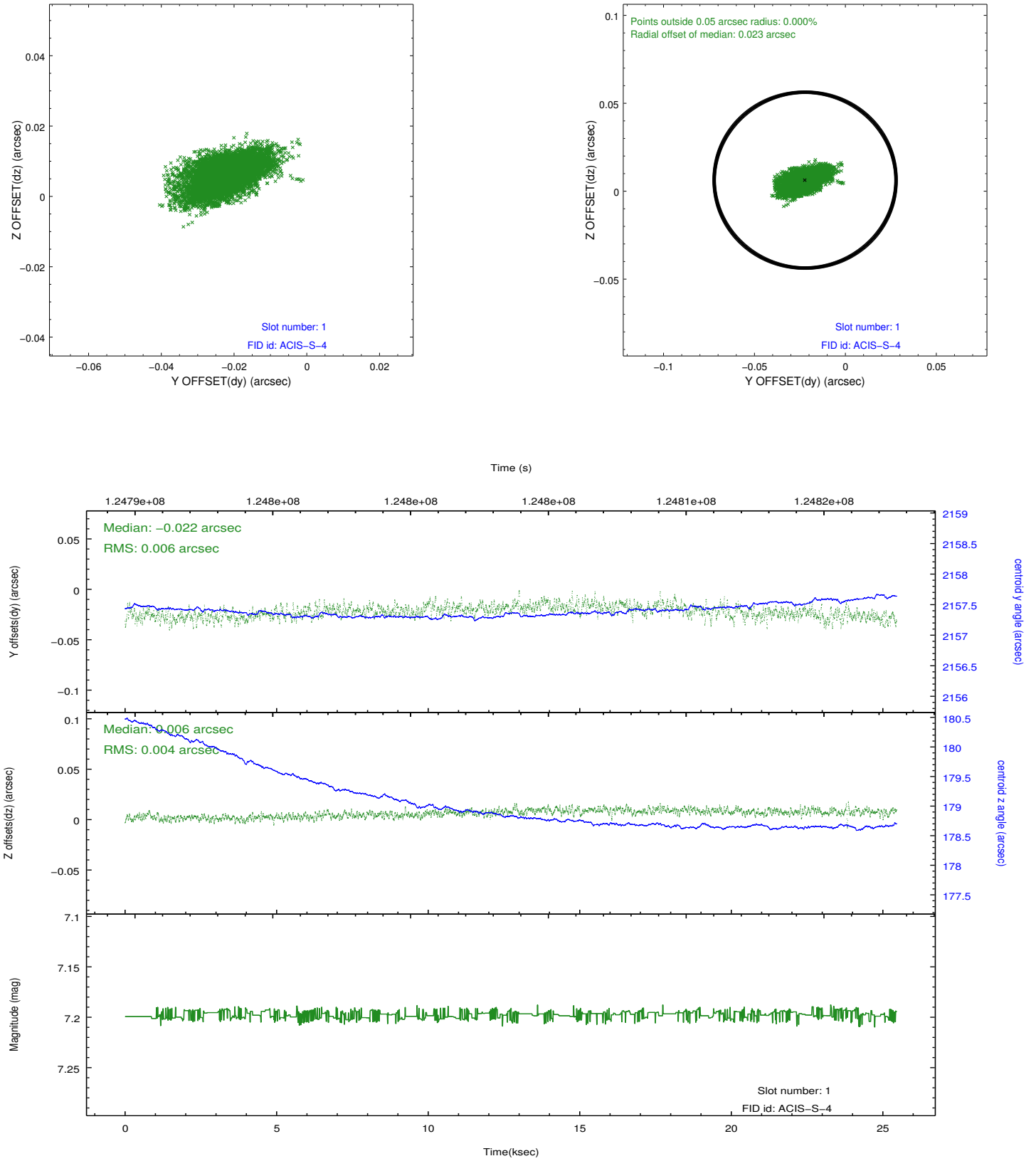


## 2.5 FID Slots

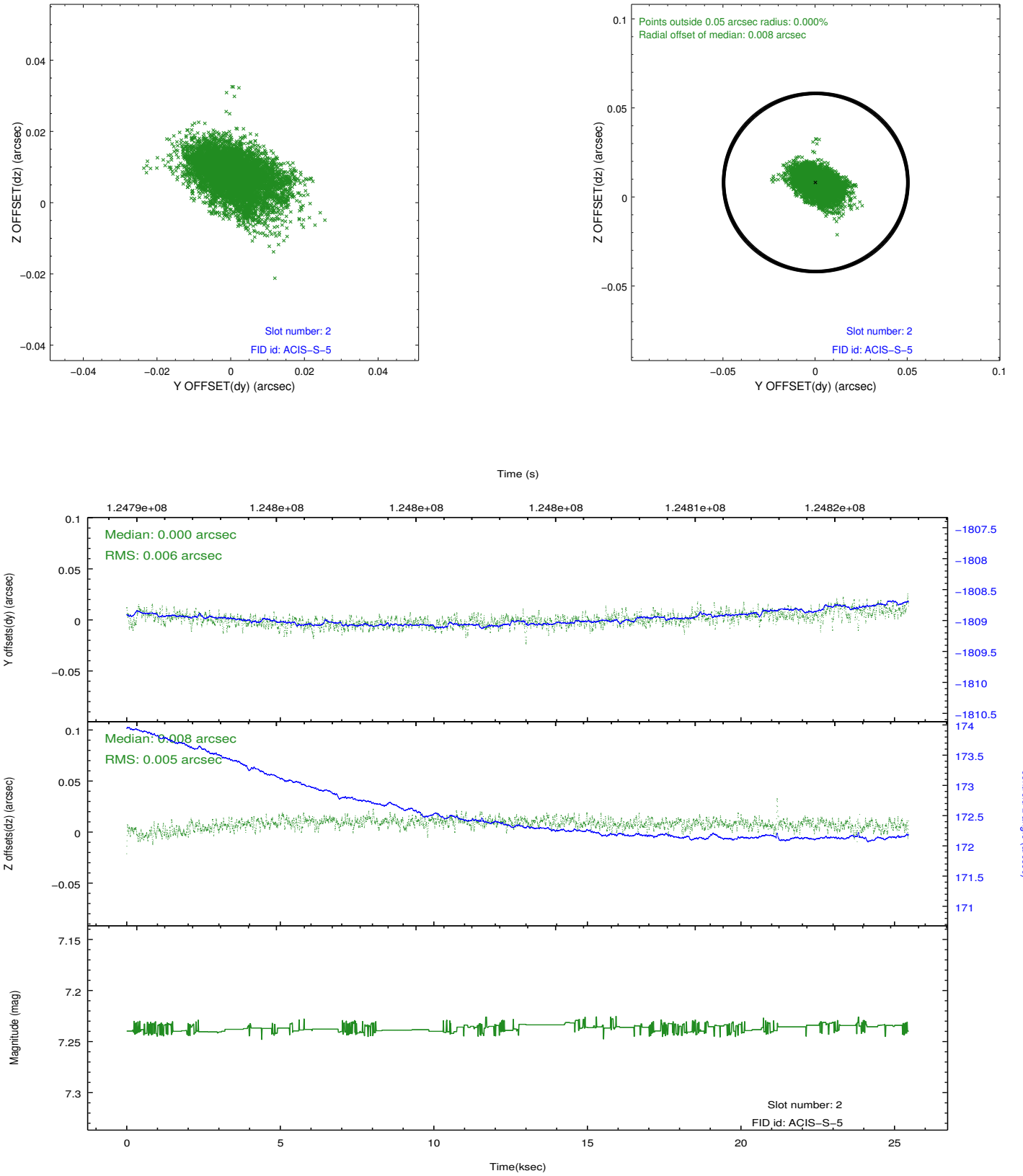
### 2.5.1 Slot 0



## 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)	2012.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.401

### A.2 Comments