

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10825 - L2 Version 2  
Chandra X-Ray Center

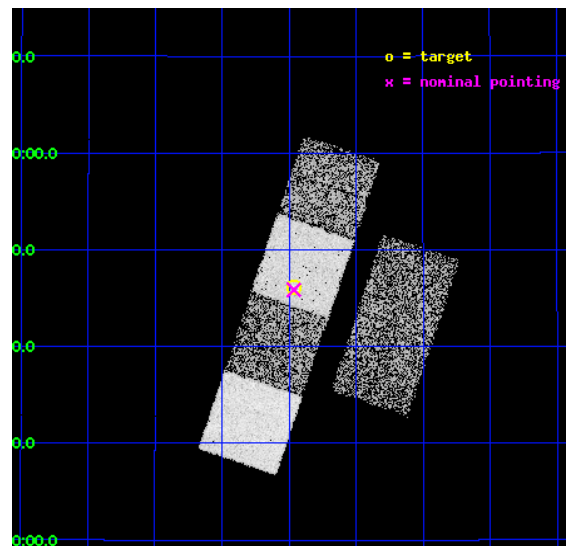
L2 Processing Date : May 25 2012

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# 1 Front

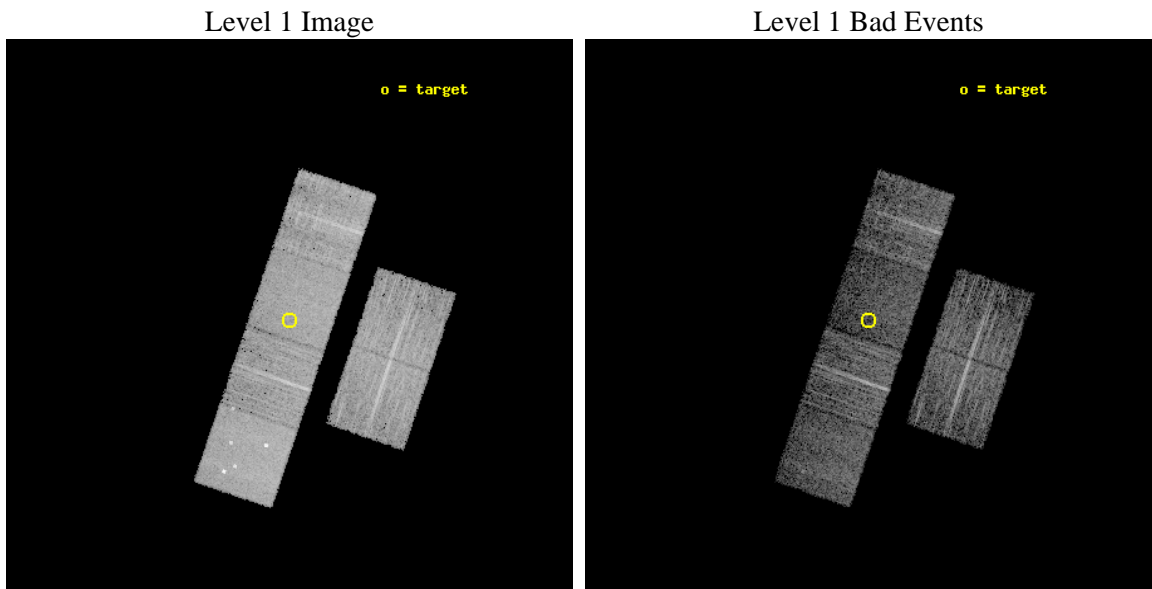
seq_num	200568	Sequence number
obs_id	10825	Observation id
title	The current X-ray status of the planet bearing host star 51 Peg	Pr
observer	Prof. Jurgen Schmitt	Principal investigator
object	51 Peg	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.36625	Observer's specified target RA [deg]
dec_targ	20.768833	Observer's specified target Dec [deg]
ra_nom	344.36606527457	Nominal RA [deg]
dec_nom	20.764429158205	Nominal Dec [deg]
roll_nom	288.75671966753	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4982.3999814987	Sum of GTIs [s]
livetime	4919.3098328919	Livetime [s]
ontime2	4982.3999814987	Sum of GTIs [s]
ontime3	4982.3999814987	Sum of GTIs [s]
ontime5	4982.3999814987	Sum of GTIs [s]
ontime6	4982.3999814987	Sum of GTIs [s]
ontime7	4982.3999814987	Sum of GTIs [s]
ontime8	4982.3999814987	Sum of GTIs [s]
l2events	61310	Number of level 2 events



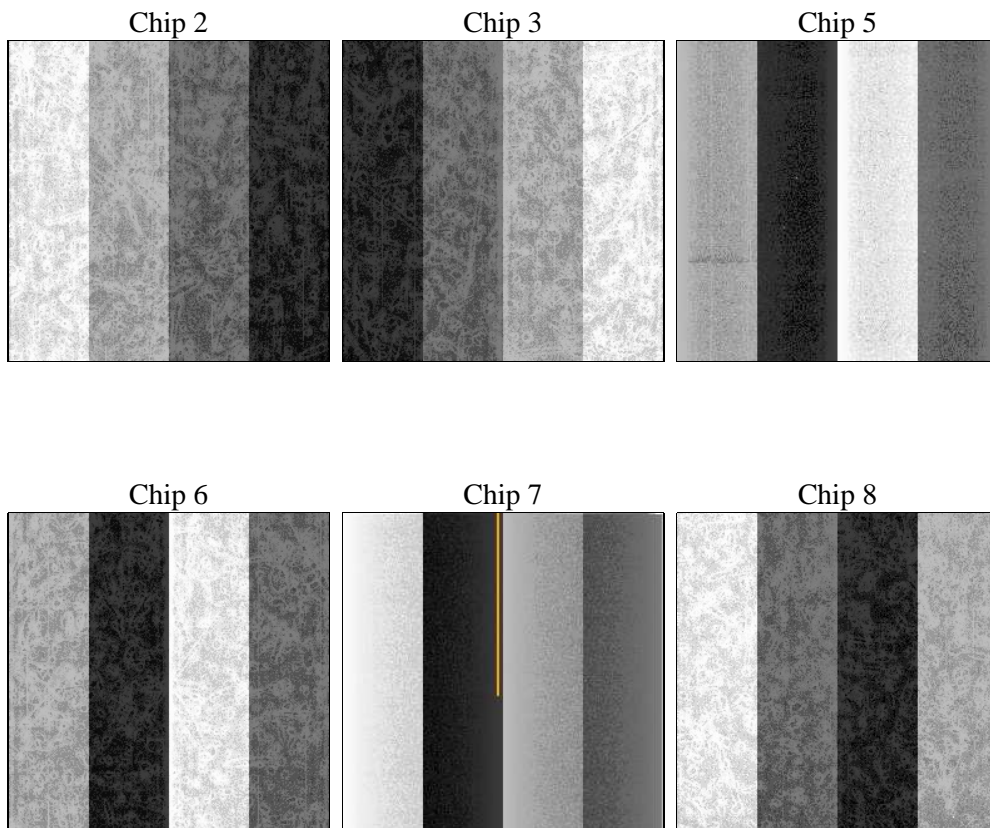
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4982.3999814987	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4982.3999814987	Sum of GTIs [s]
date	2012-05-25T18:12:14	Date and time of file creation	ontime3	4982.3999814987	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4982.3999814987	Sum of GTIs [s]
			ontime6	4982.3999814987	Sum of GTIs [s]
			ontime7	4982.3999814987	Sum of GTIs [s]
			ontime8	4982.3999814987	Sum of GTIs [s]
			l1events	286015	Number of level 1 events

### 2.1.4 Events

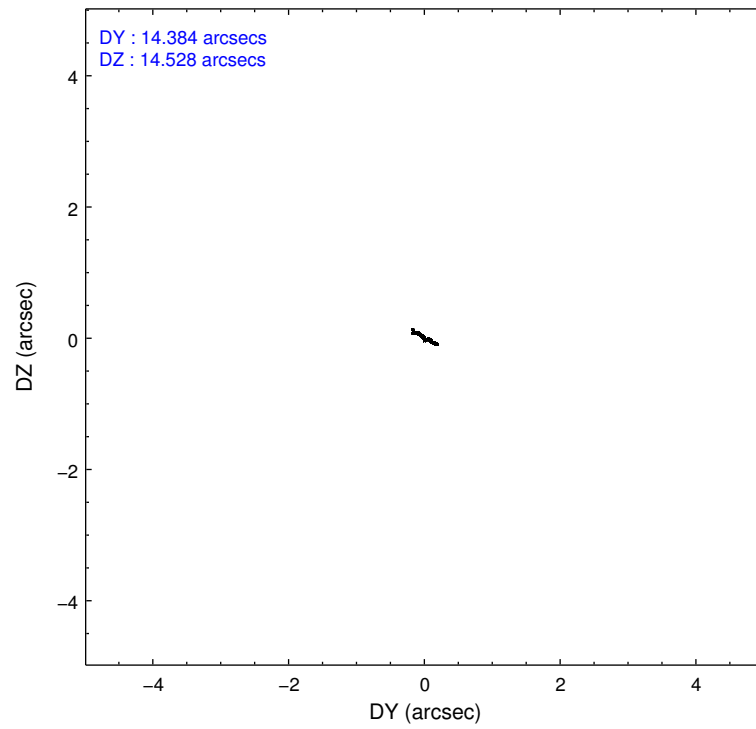
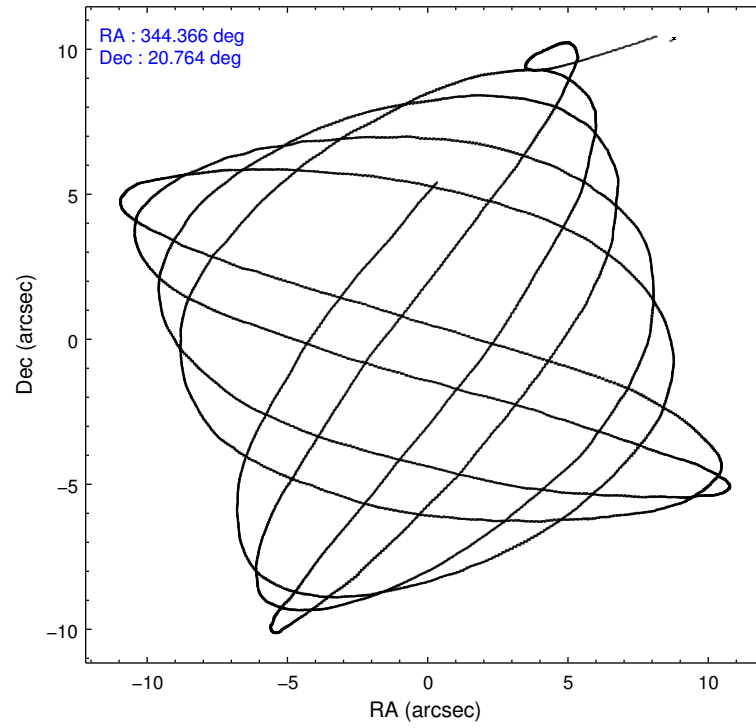
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43112	41295	61097	42395	47127	50989	grade 0 events	1412	1343	4814	1532	1900	3538
rejected events	39112	37533	29977	38128	26338	38793		3%	3%	7%	3%	4%	6%
rejected %	90%	90%	49%	89%	55%	76%	grade 1 events	23	26	195	28	63	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	996	838	9397	901	4233	2809
								2%	2%	15%	2%	8%	5%
							grade 3 events	460	416	1095	455	1865	1333
								1%	1%	1%	1%	3%	2%
							grade 4 events	442	445	1061	469	1906	1257
								1%	1%	1%	1%	4%	2%
							grade 5 events	1371	1693	4313	1721	4999	2409
								3%	4%	7%	4%	10%	4%
							grade 6 events	720	763	15068	949	11096	3401
								1%	1%	24%	2%	23%	6%
							grade 7 events	37688	35771	25154	36340	21065	36207
								87%	86%	41%	85%	44%	71%

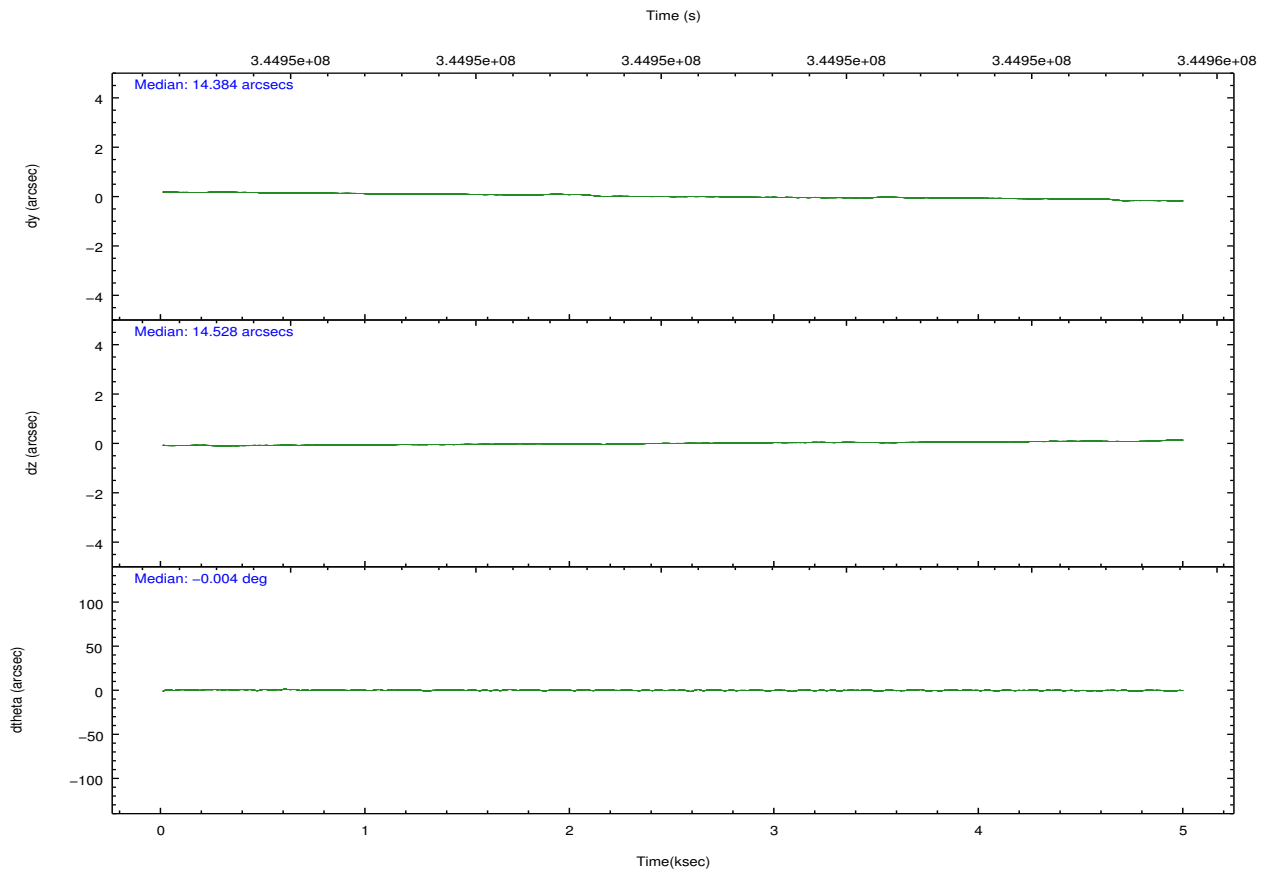
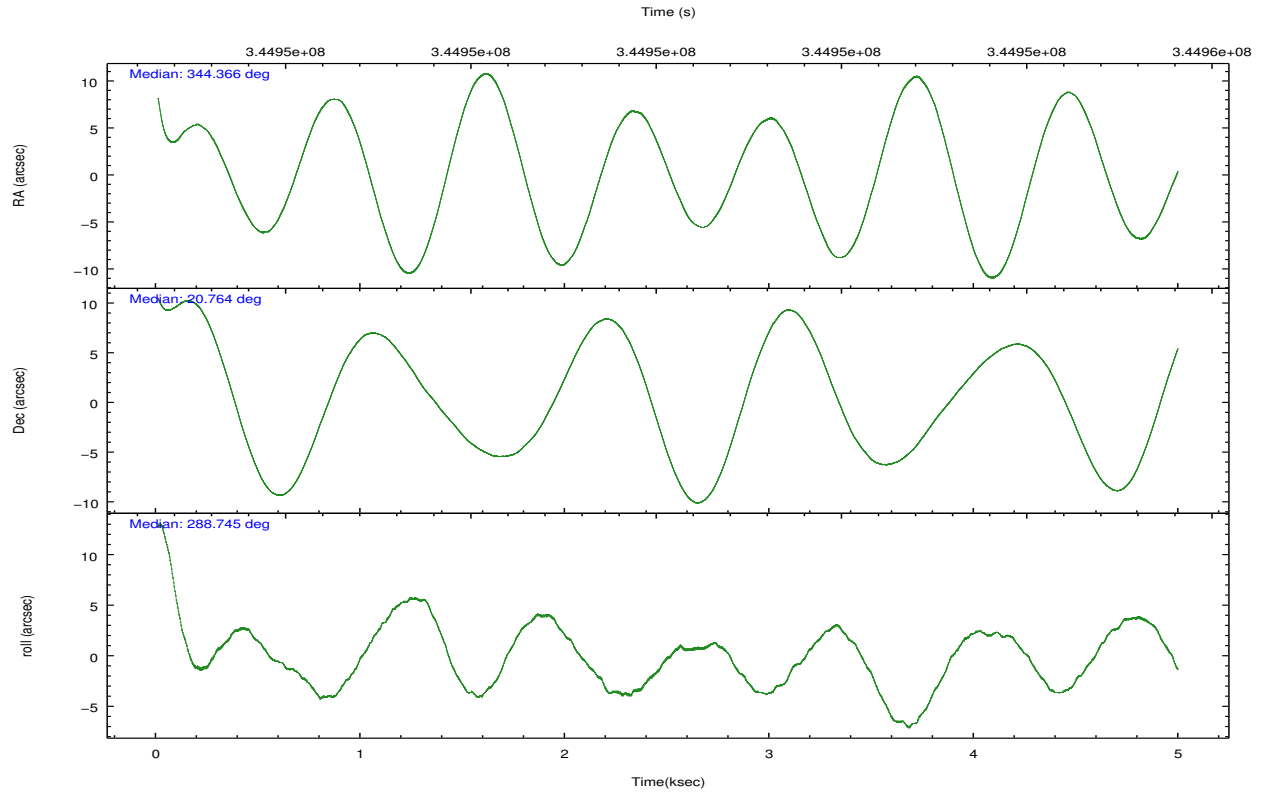


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	344.343767	344.3660652745673	CCD I2 on	O1	Y
[deg] Pointing Dec	20.782158	20.76442915820503	CCD I3 on	O2	Y
[deg] Pointing Roll	288.607977	288.7567196675267	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	344949768.184000	344948671.06357	CCD S5 on	N	N
Observation start date	2008-12-06T11:21:43	2008-12-06T11:04:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	344954568.184000	344954759.05137	On-chip summing requested	N	N
Observation end date	2008-12-06T12:41:43	2008-12-06T12:45:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



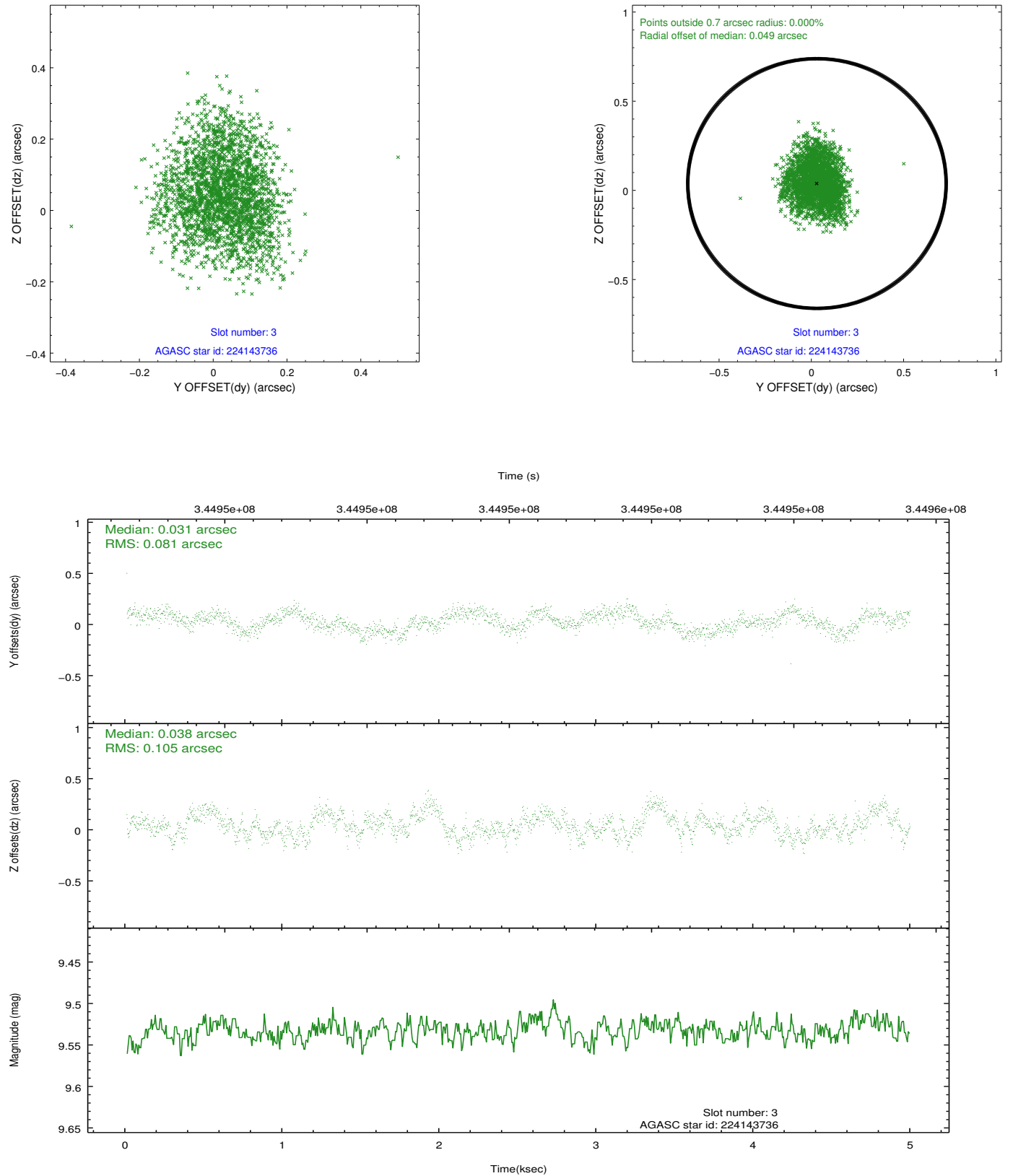


### Slot Statistics

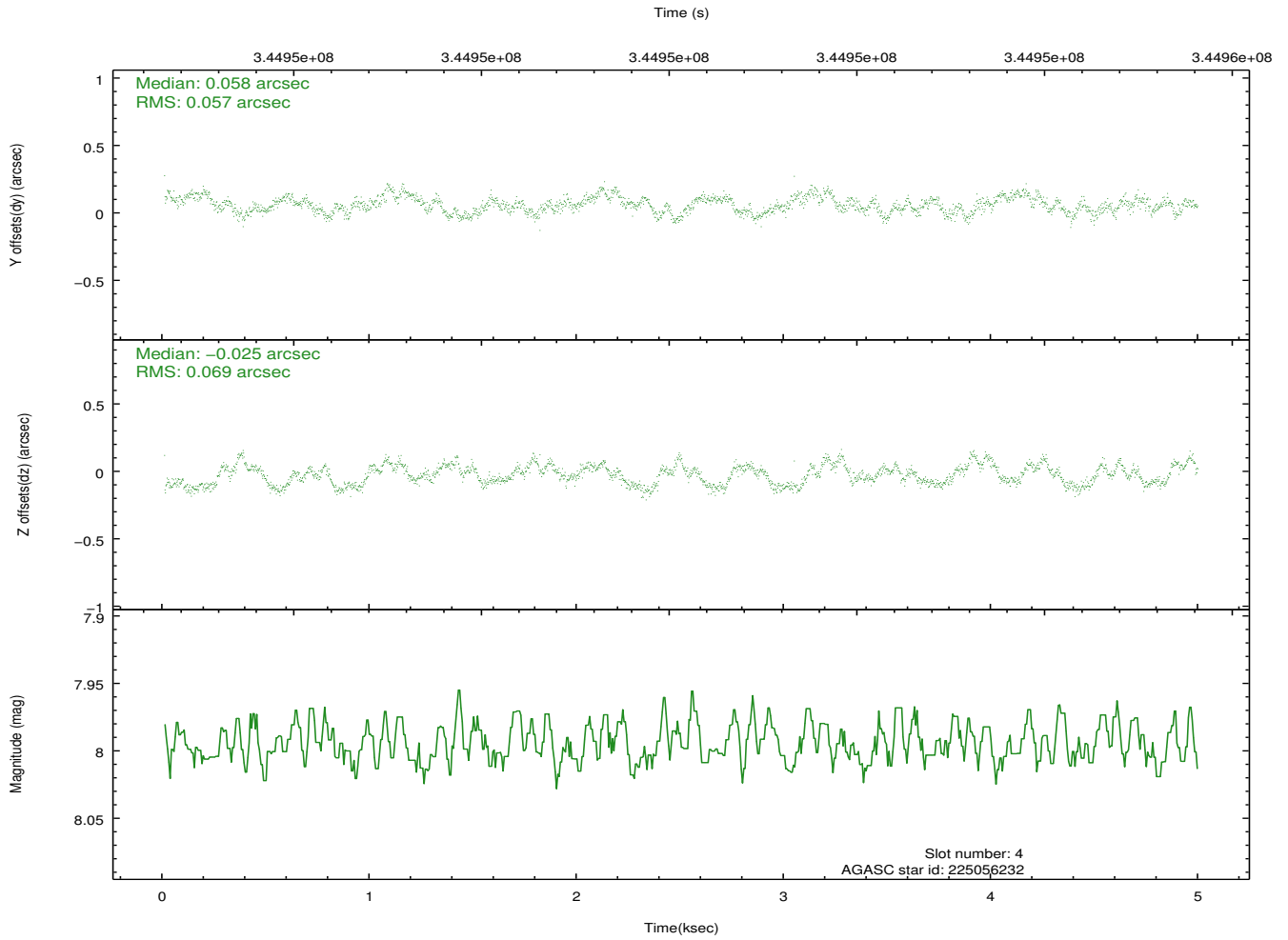
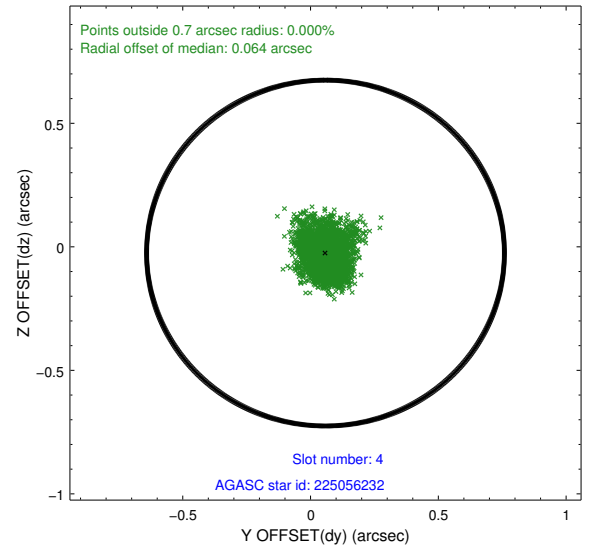
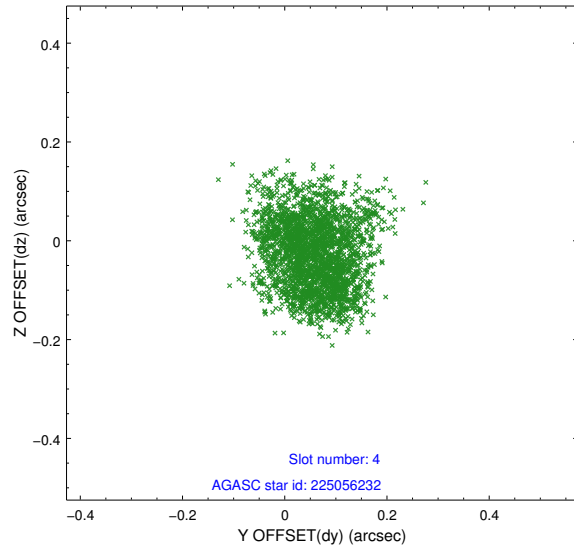
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.00	1217	-0.079	-0.037	0.007	0.012	0.000000	0.000000	-767.42	-1735.88
1	FID	ACIS-S-4	7.09	1217	0.205	0.048	0.005	0.009	0.000000	0.000000	2145.57	171.43
2	FID	ACIS-S-5	7.12	1217	-0.157	-0.003	0.006	0.011	0.000000	0.000000	-1818.79	166.42
3	GUIDE	224143736	9.53	2428	0.031	0.038	0.143	0.223	343.622089	20.874213	-1093.12	-2193.12
4	GUIDE	225056232	8.00	2433	0.058	-0.025	0.097	0.148	344.533182	20.742589	337.92	558.18
5	GUIDE	225058064	9.39	2433	0.043	0.034	0.132	0.199	344.303120	21.109085	-1158.42	246.42
6	GUIDE	225068016	9.79	2430	0.055	-0.114	0.164	0.249	344.091016	20.516948	632.61	-1111.66
7	GUIDE	225054832	5.92	2432	-0.181	0.068	0.071	0.106	344.526743	21.513174	-2298.47	1420.23

## 2.4 Star Slots

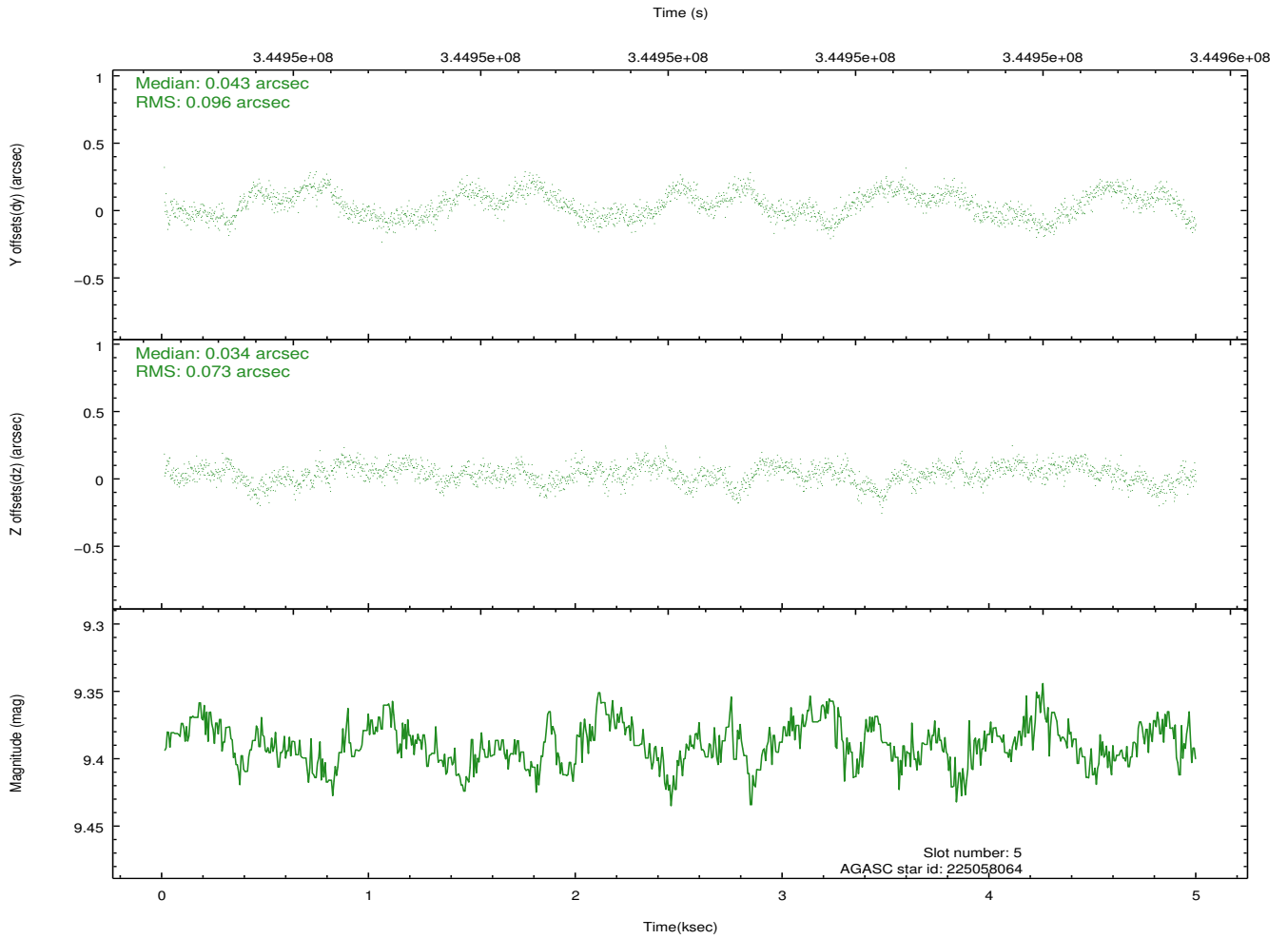
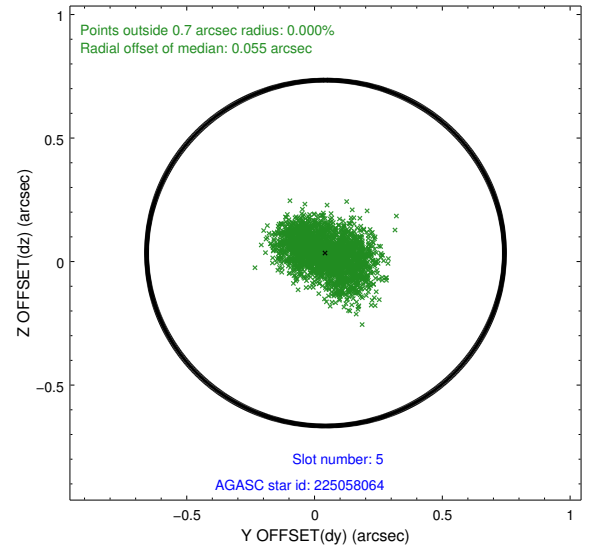
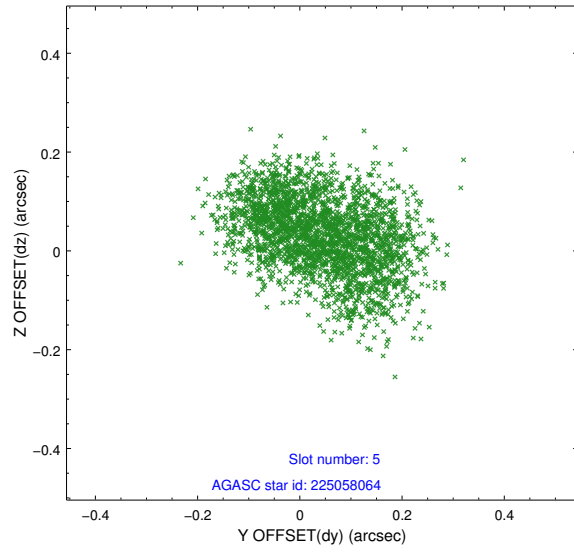
### 2.4.1 Slot 3



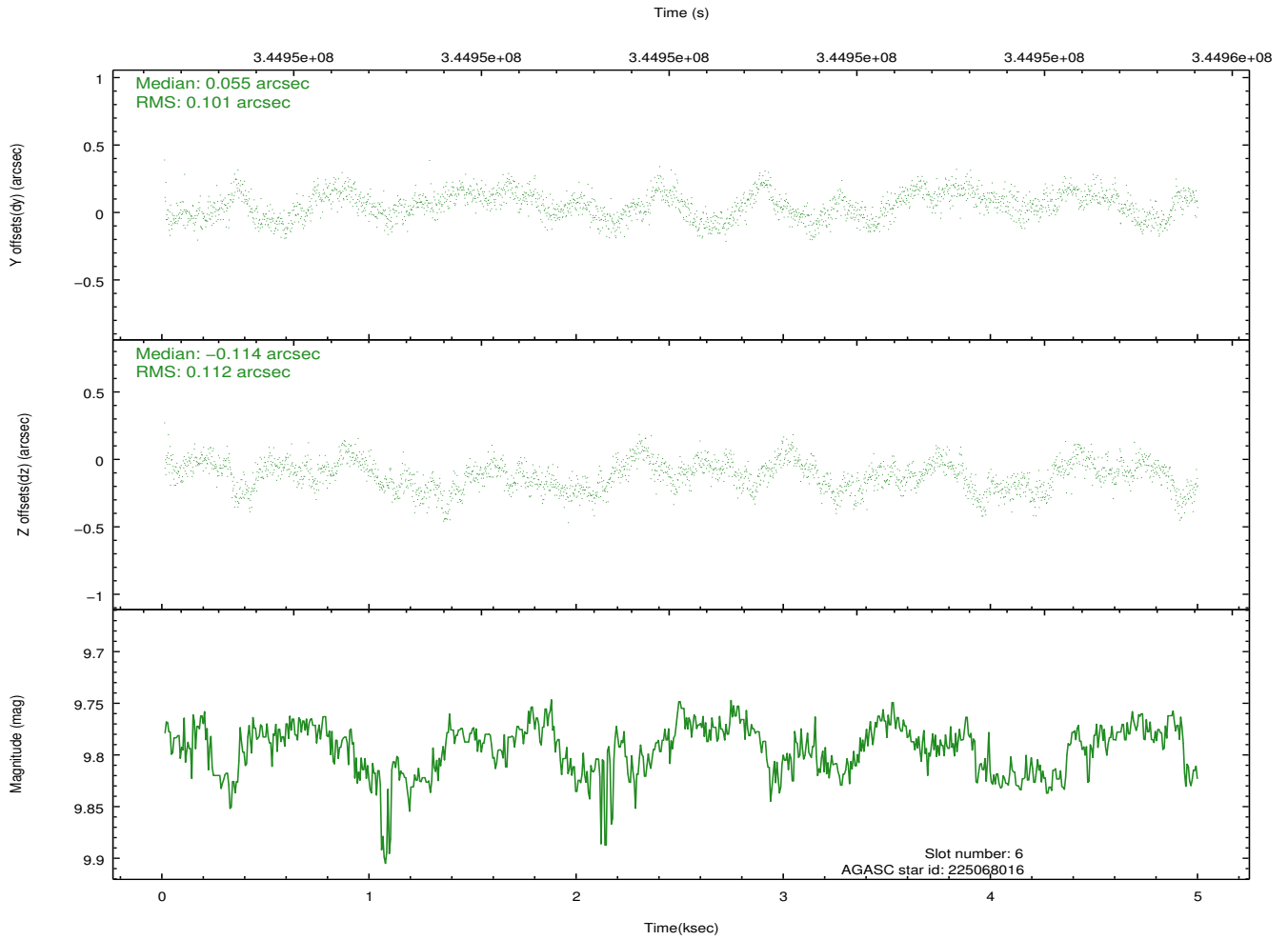
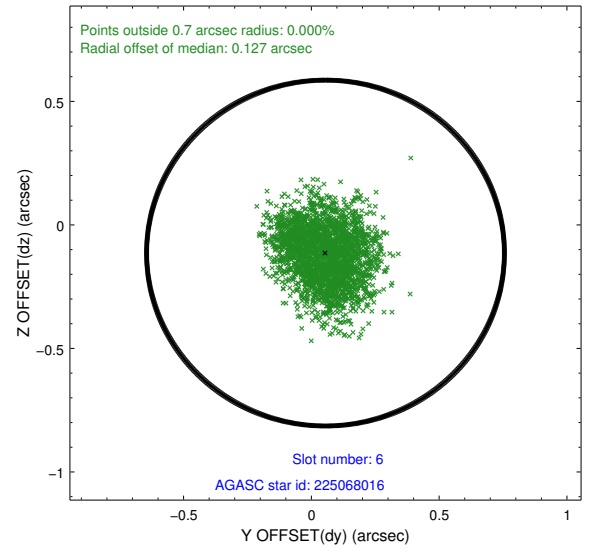
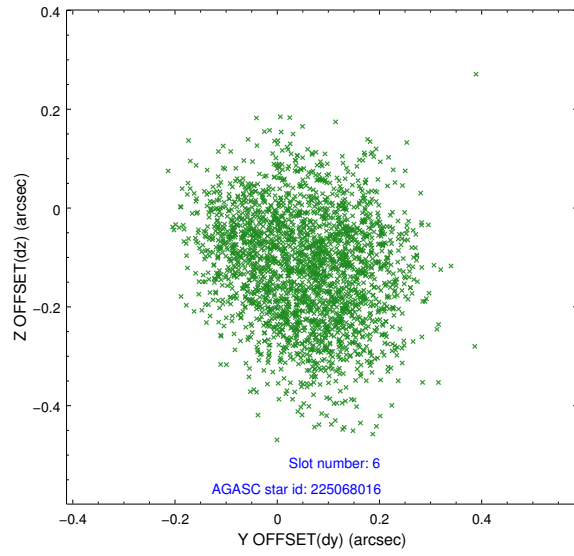
## 2.4.2 Slot 4



### 2.4.3 Slot 5

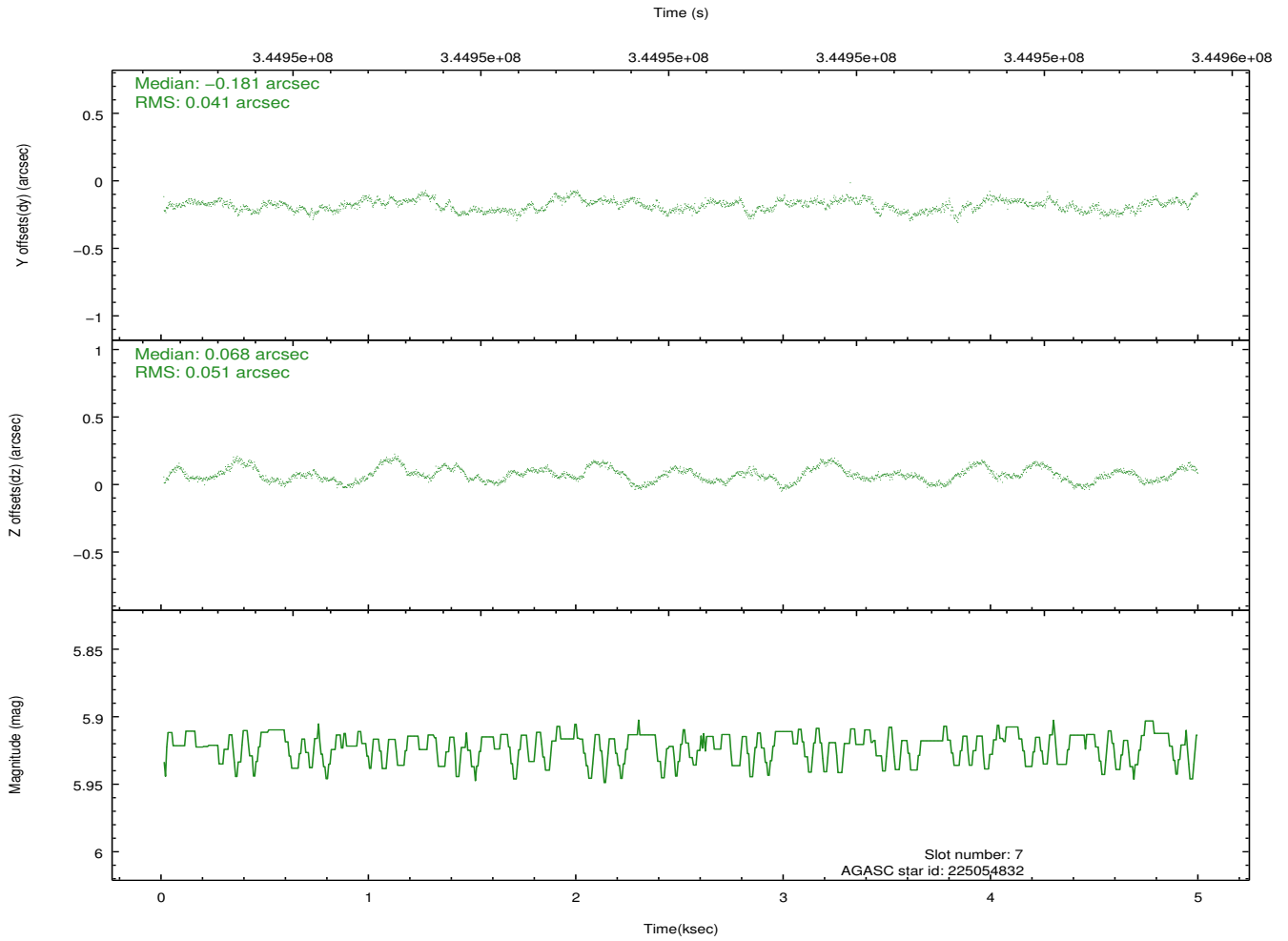
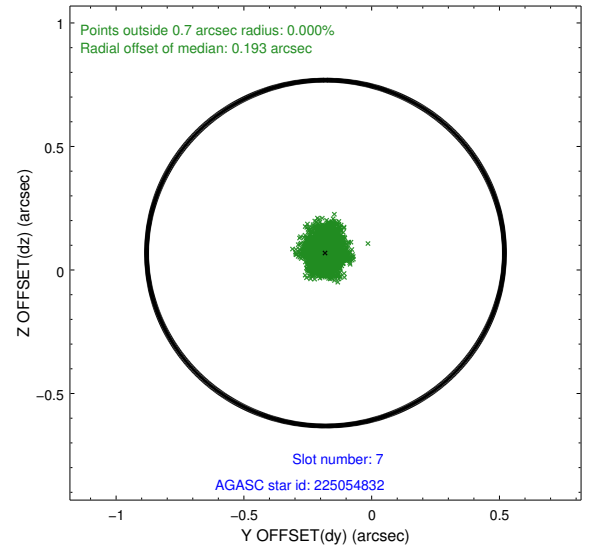
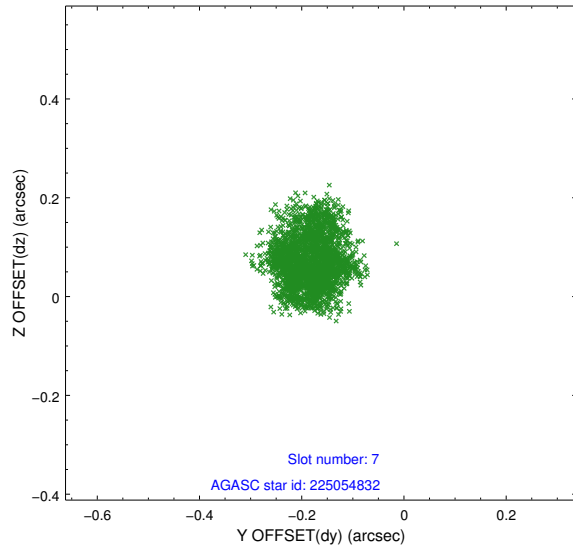


## 2.4.4 Slot 6



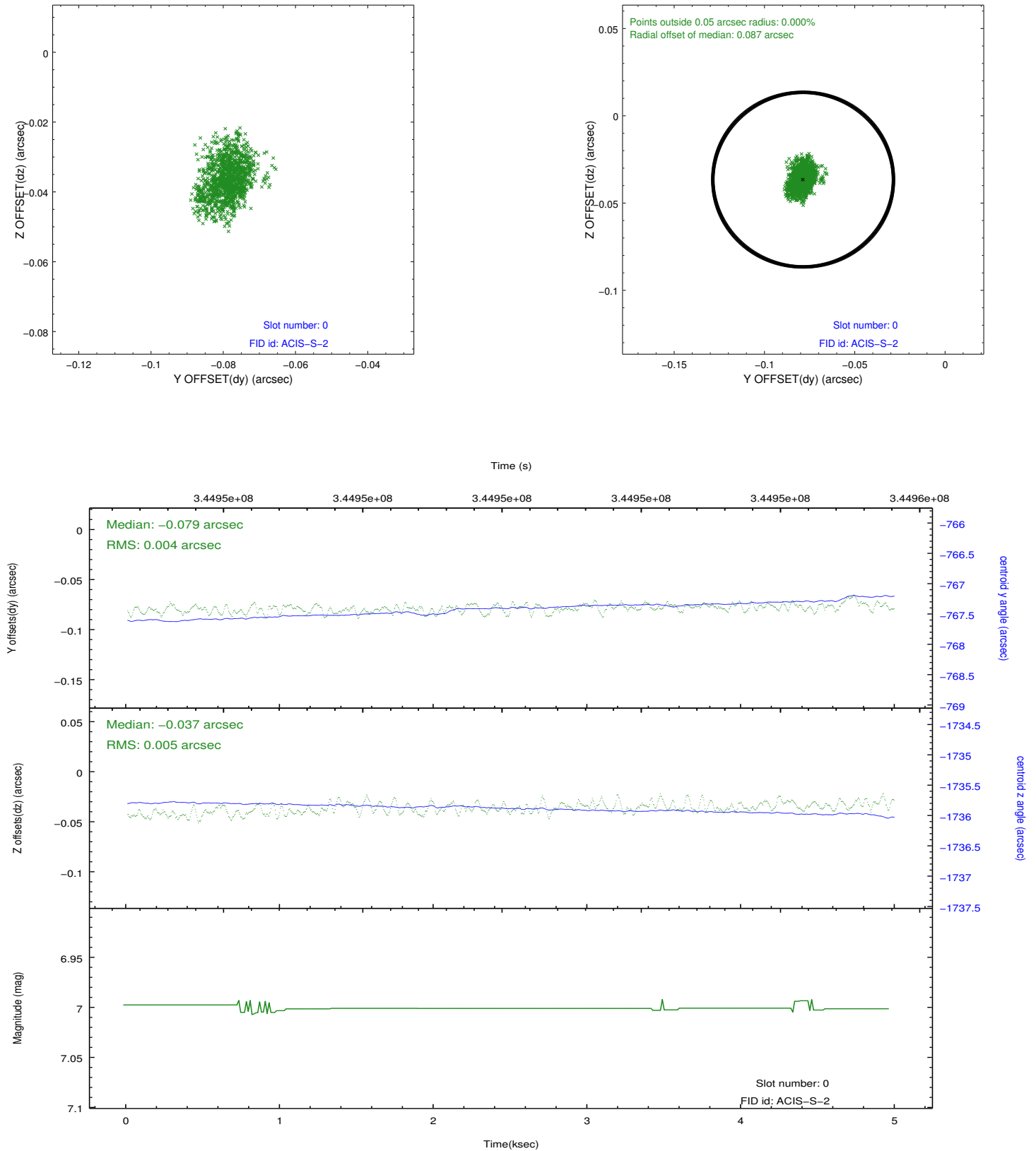


## 2.4.5 Slot 7

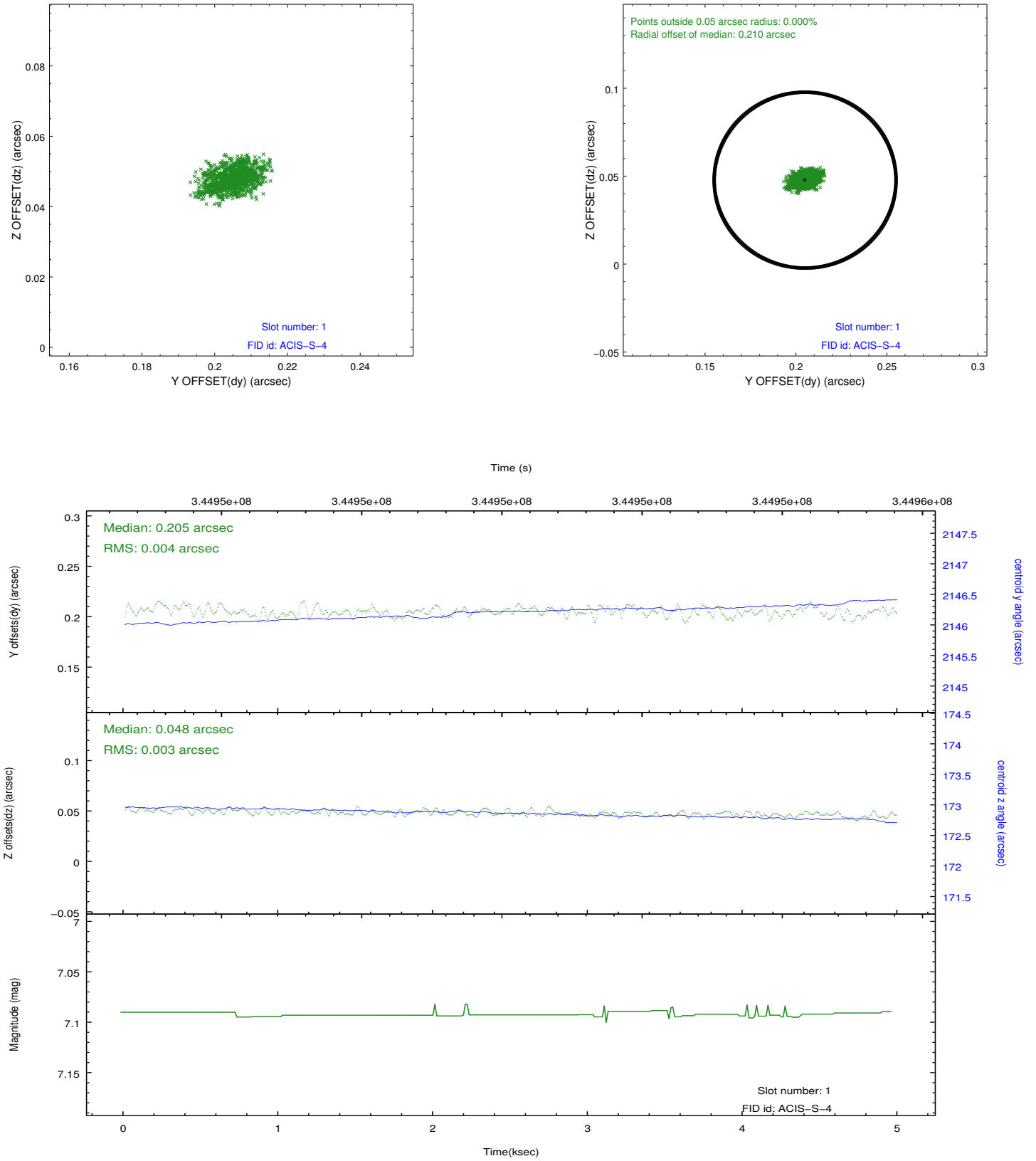


## 2.5 FID Slots

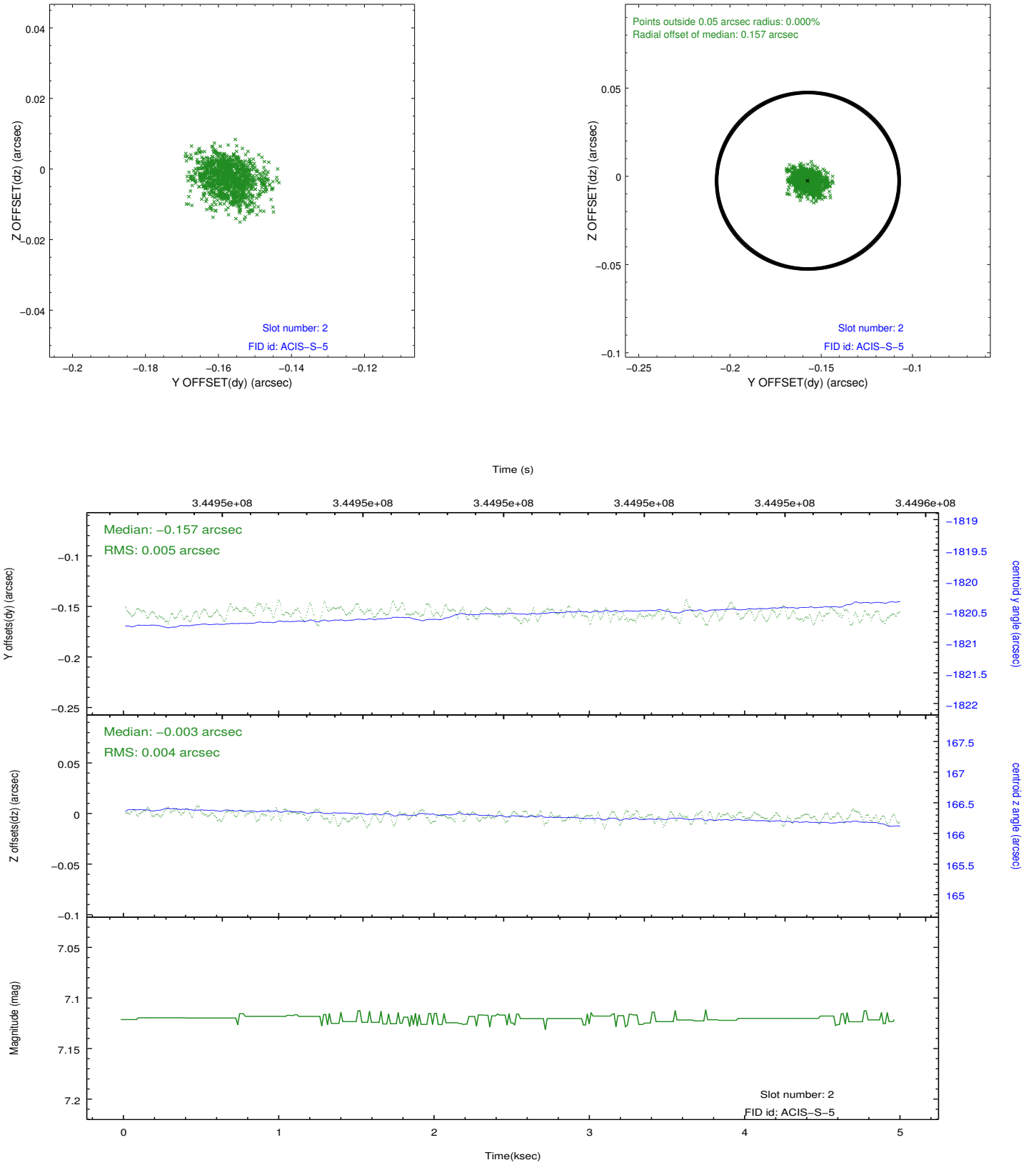
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.98239998

### A.2 Comments