

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11510 - L2 Version 2  
Chandra X-Ray Center

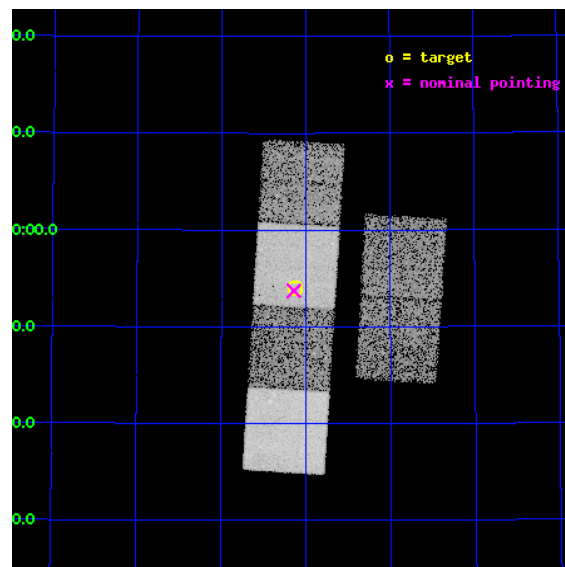
L2 Processing Date : Jul 2 2012

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# 1 Front

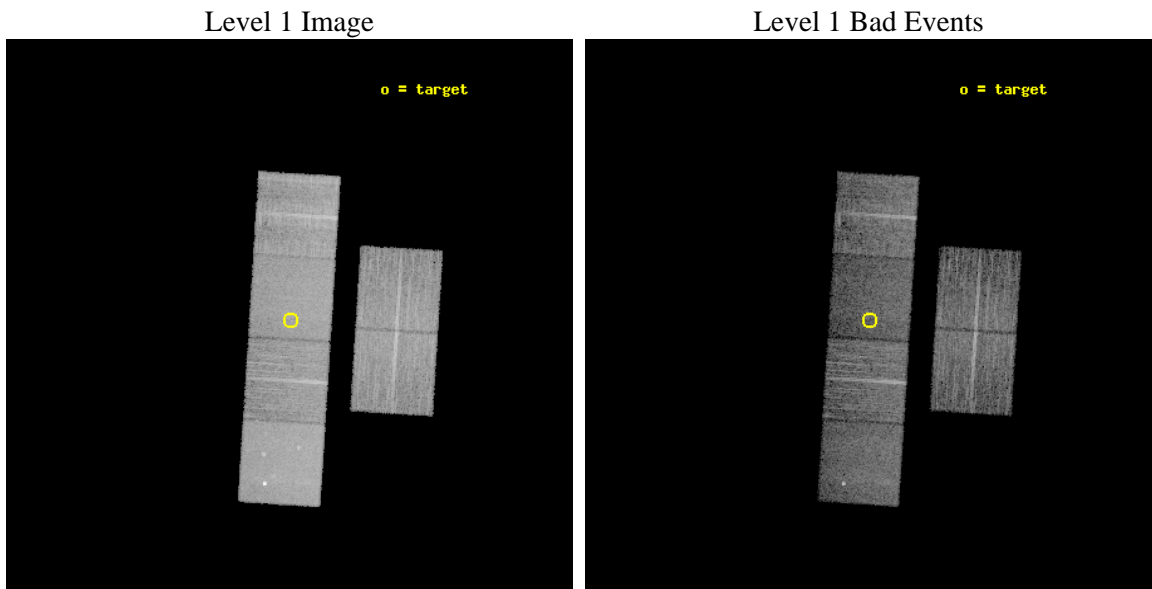
seq_num	702096	Sequence number
obs_id	11510	Observation id
title	Weak-line Quasars: Always X-ray Weak?	Proposal title
observer	Dr. Karen Leighly	Principal investigator
object	SDSS J152307.34+535358.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.780417	Observer's specified target RA [deg]
dec_targ	53.899556	Observer's specified target Dec [deg]
ra_nom	230.7851868855	Nominal RA [deg]
dec_nom	53.895548441186	Nominal Dec [deg]
roll_nom	273.59455017057	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9750.3999637365	Sum of GTIs [s]
livetime	9626.9345284097	Livetime [s]
ontime2	9747.1590132713	Sum of GTIs [s]
ontime3	9750.3388421535	Sum of GTIs [s]
ontime5	9750.3999637365	Sum of GTIs [s]
ontime6	9750.3798821568	Sum of GTIs [s]
ontime7	9750.3999637365	Sum of GTIs [s]
ontime8	9747.0568317771	Sum of GTIs [s]
l2events	117936	Number of level 2 events



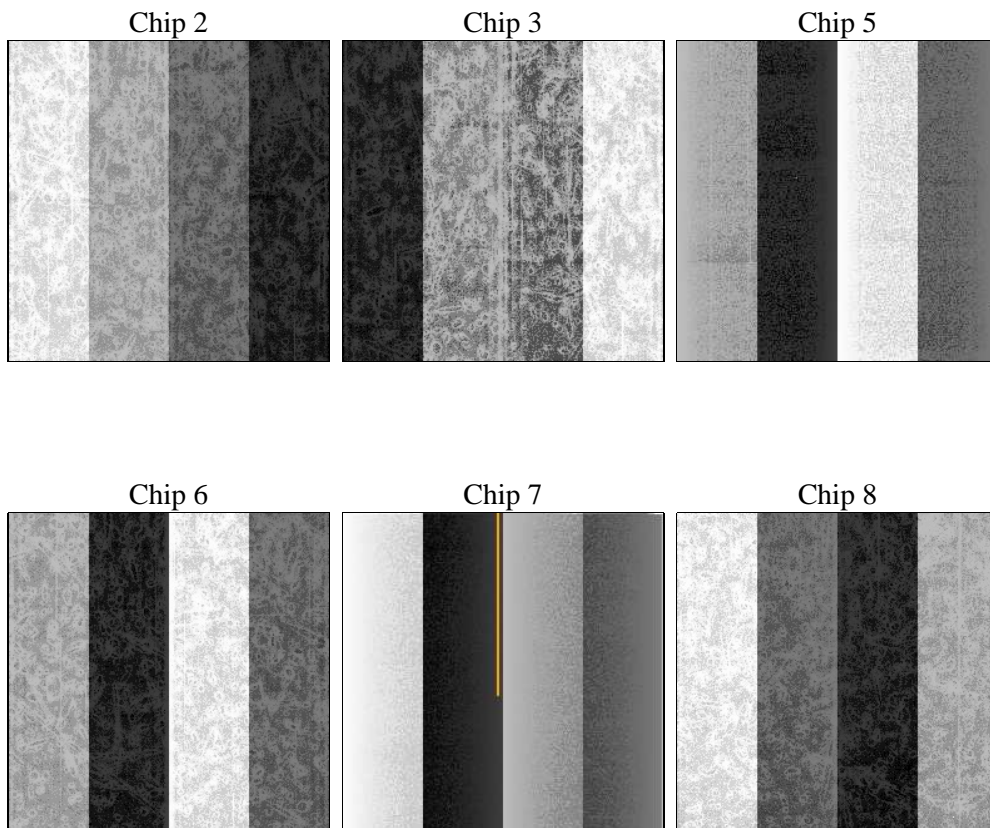
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9750.3999637365	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	9747.1590132713	Sum of GTIs [s]
date	2012-07-02T05:37:20	Date and time of file creation	ontime3	9750.3388421535	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9750.3999637365	Sum of GTIs [s]
			ontime6	9750.3798821568	Sum of GTIs [s]
			ontime7	9750.3999637365	Sum of GTIs [s]
			ontime8	9747.0568317771	Sum of GTIs [s]
			l1events	508012	Number of level 1 events

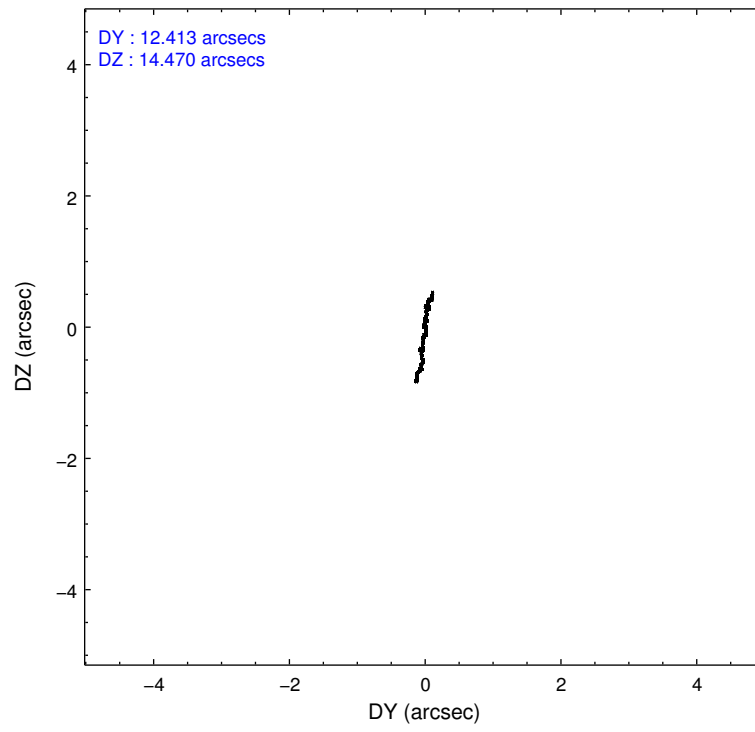
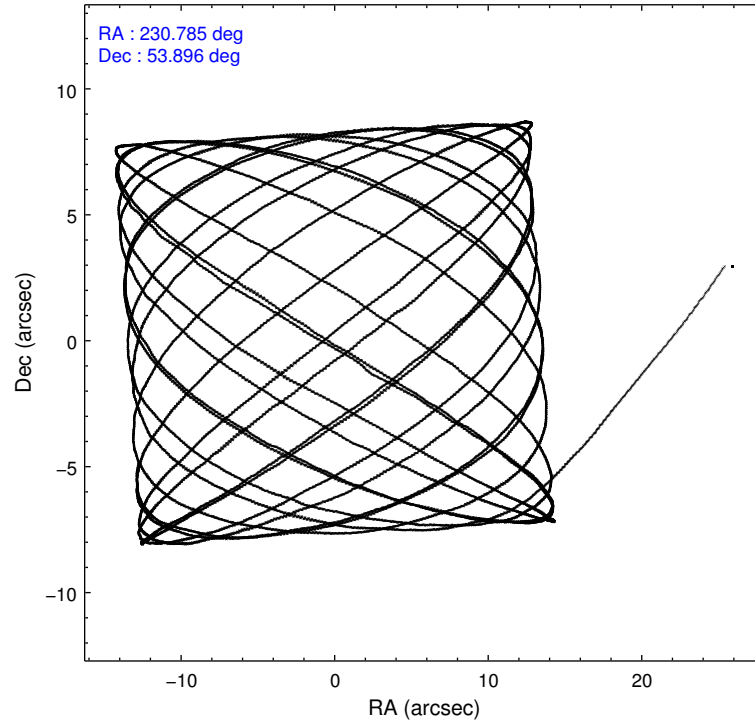
### 2.1.4 Events

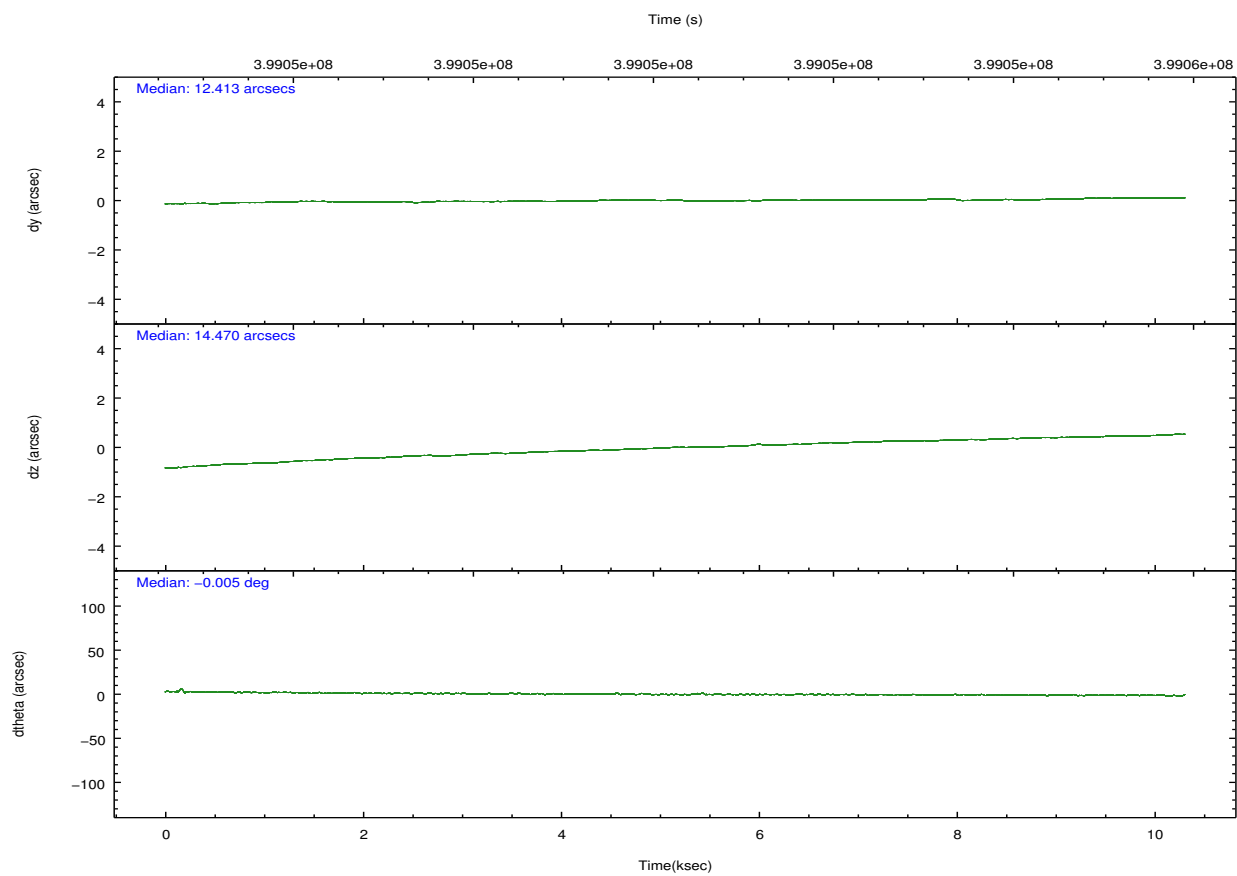
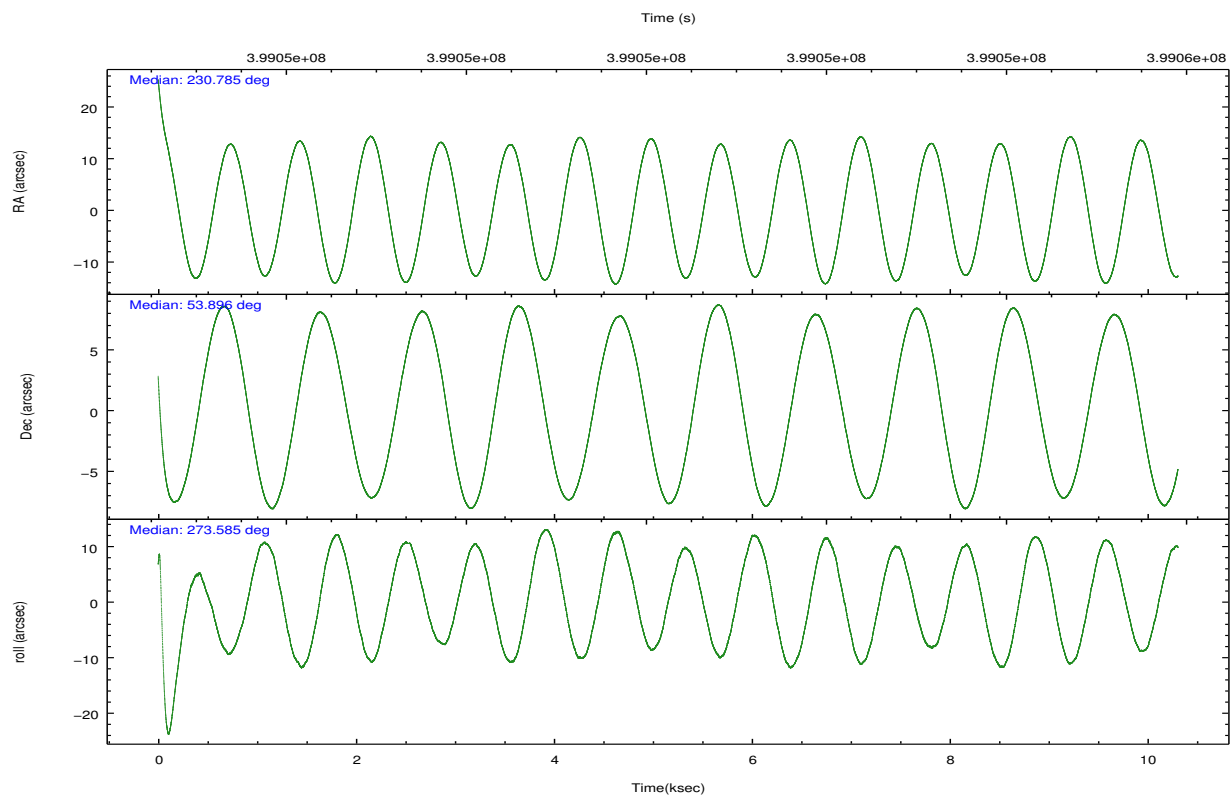
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	73242	68962	110054	74157	87019	94578	grade 0 events	2714	2564	6197	2955	3744	7932
rejected events	65718	61640	55338	66119	47145	68967		3%	3%	5%	3%	4%	8%
rejected %	89%	89%	50%	89%	54%	72%	grade 1 events	44	48	849	45	105	84
								0%	0%	0%	0%	0%	0%
							grade 2 events	1796	1588	16139	1714	8216	5741
								2%	2%	14%	2%	9%	6%
							grade 3 events	778	849	2154	807	3549	2793
								1%	1%	1%	1%	4%	2%
							grade 4 events	839	858	2104	832	3602	2585
								1%	1%	1%	1%	4%	2%
							grade 5 events	2736	3161	8284	3150	9303	4664
								3%	4%	7%	4%	10%	4%
							grade 6 events	1400	1468	28165	1741	20786	6590
								1%	2%	25%	2%	23%	6%
							grade 7 events	62935	58426	46162	62913	37714	64189
								85%	84%	41%	84%	43%	67%

## 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	230.758957	230.7851868855008	CCD I2 on	O1	Y
[deg] Pointing Dec	53.918164	53.89554844118638	CCD I3 on	O2	Y
[deg] Pointing Roll	273.459061	273.5945501705667	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)	399045688.184000	399044471.99721	CCD S5 on	N	N
Observation start date	2010-08-24T14:00:22	2010-08-24T13:41:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	399055388.184000	399056818.63534	On-chip summing requested	N	N
Observation end date	2010-08-24T16:42:02	2010-08-24T17:06:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



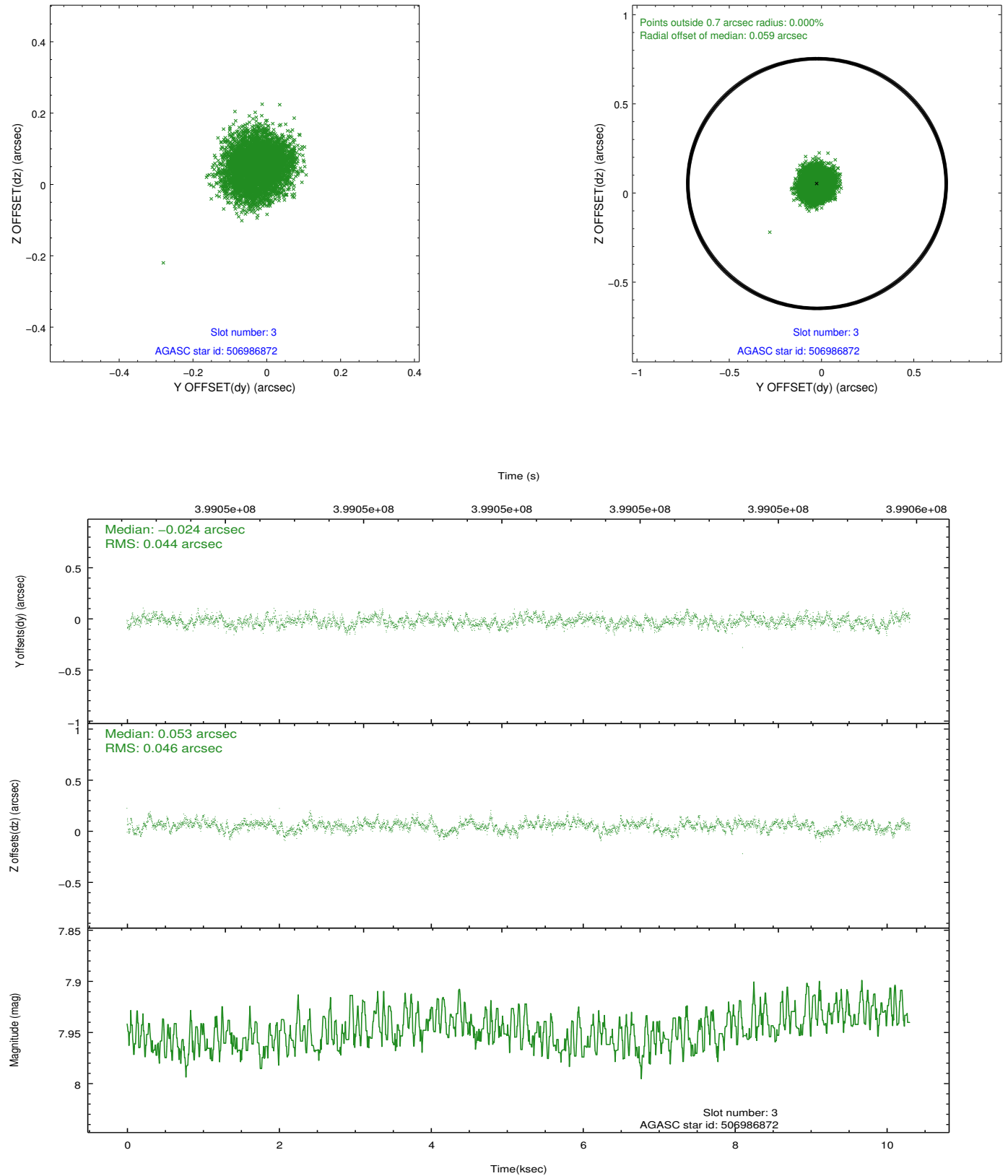


### Slot Statistics

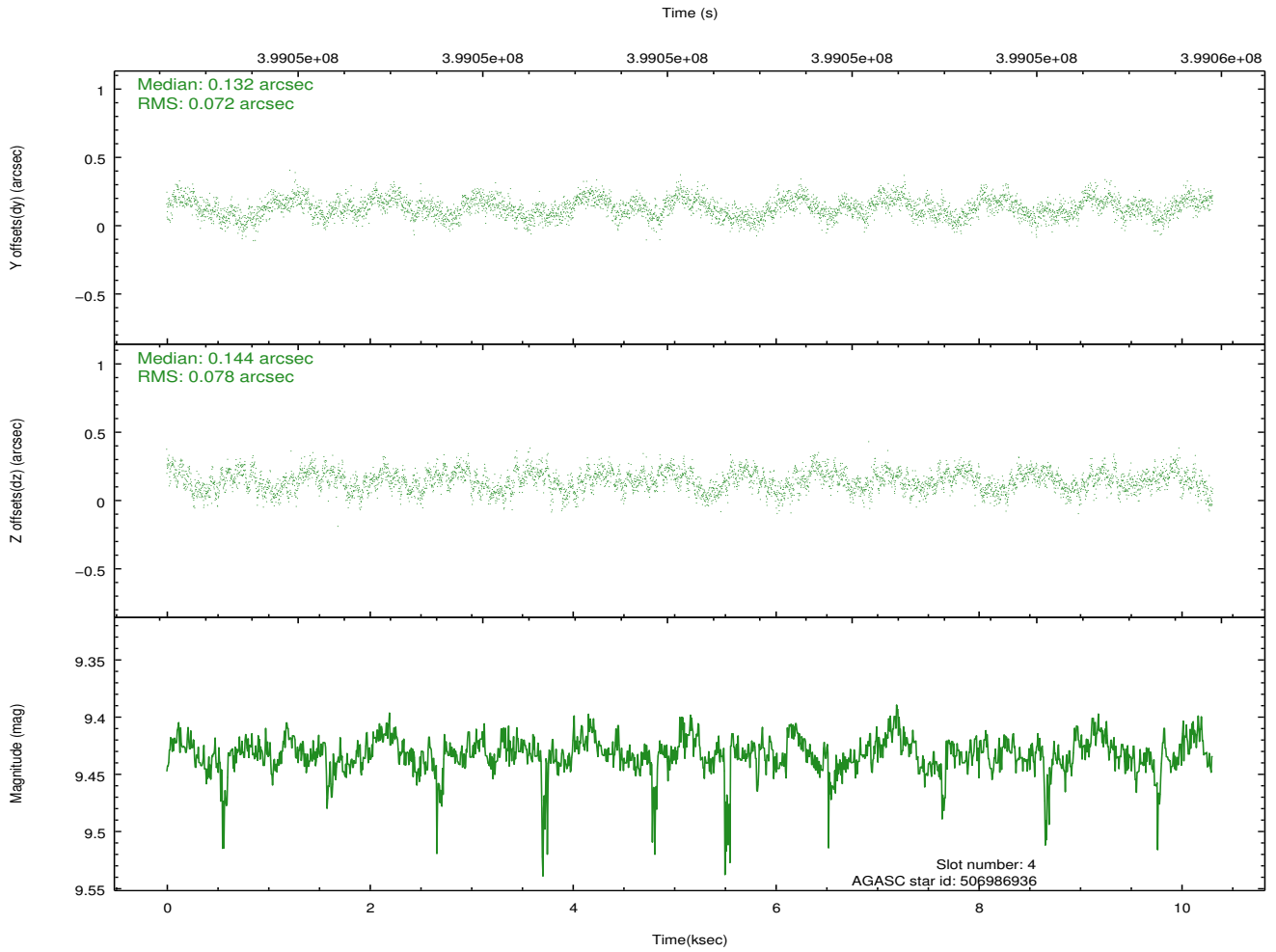
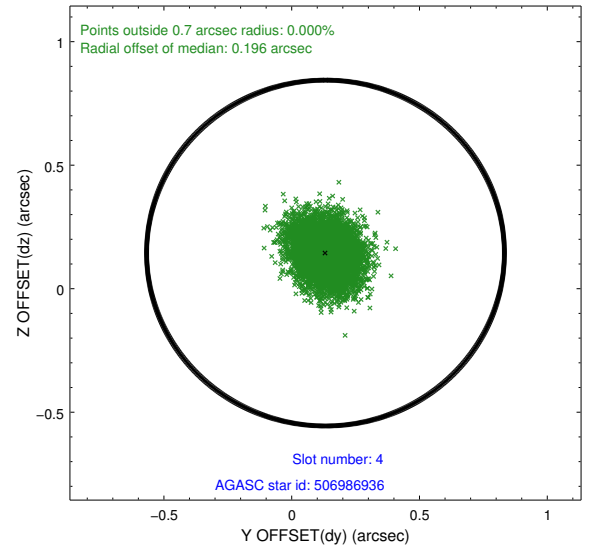
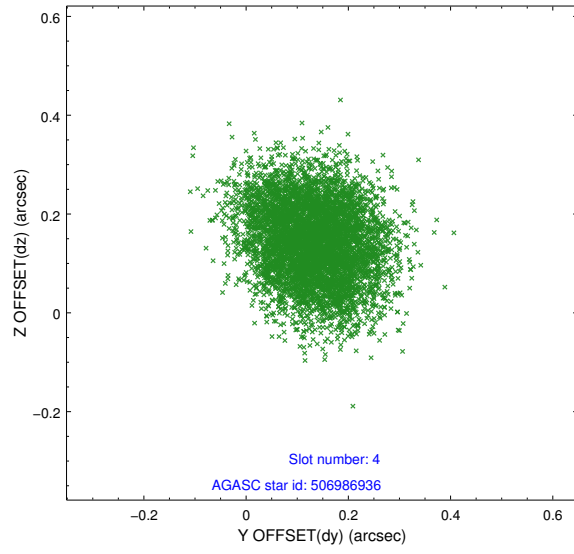
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	2514	-0.034	-0.020	0.012	0.020	0.000000	0.000000	-765.32	-1735.76
1	FID	ACIS-S-4	7.02	2514	0.121	0.022	0.012	0.020	0.000000	0.000000	2147.86	172.27
2	FID	ACIS-S-5	7.06	2514	-0.120	0.007	0.010	0.016	0.000000	0.000000	-1817.62	166.46
3	GUIDE	506986872	7.95	5027	-0.024	0.053	0.068	0.107	230.265485	53.928525	-103.63	-1041.43
4	GUIDE	506986936	9.43	5019	0.132	0.144	0.114	0.179	230.633294	53.957349	-155.84	-258.41
5	GUIDE	506993312	9.17	5023	0.023	-0.111	0.101	0.163	230.947277	53.685645	859.28	350.18
6	GUIDE	506993984	9.62	5019	-0.032	-0.018	0.121	0.193	230.084051	53.571430	1152.67	-1514.66
7	GUIDE	507121096	6.90	5028	-0.099	-0.063	0.080	0.134	231.634131	54.020297	-266.60	1870.38

## 2.4 Star Slots

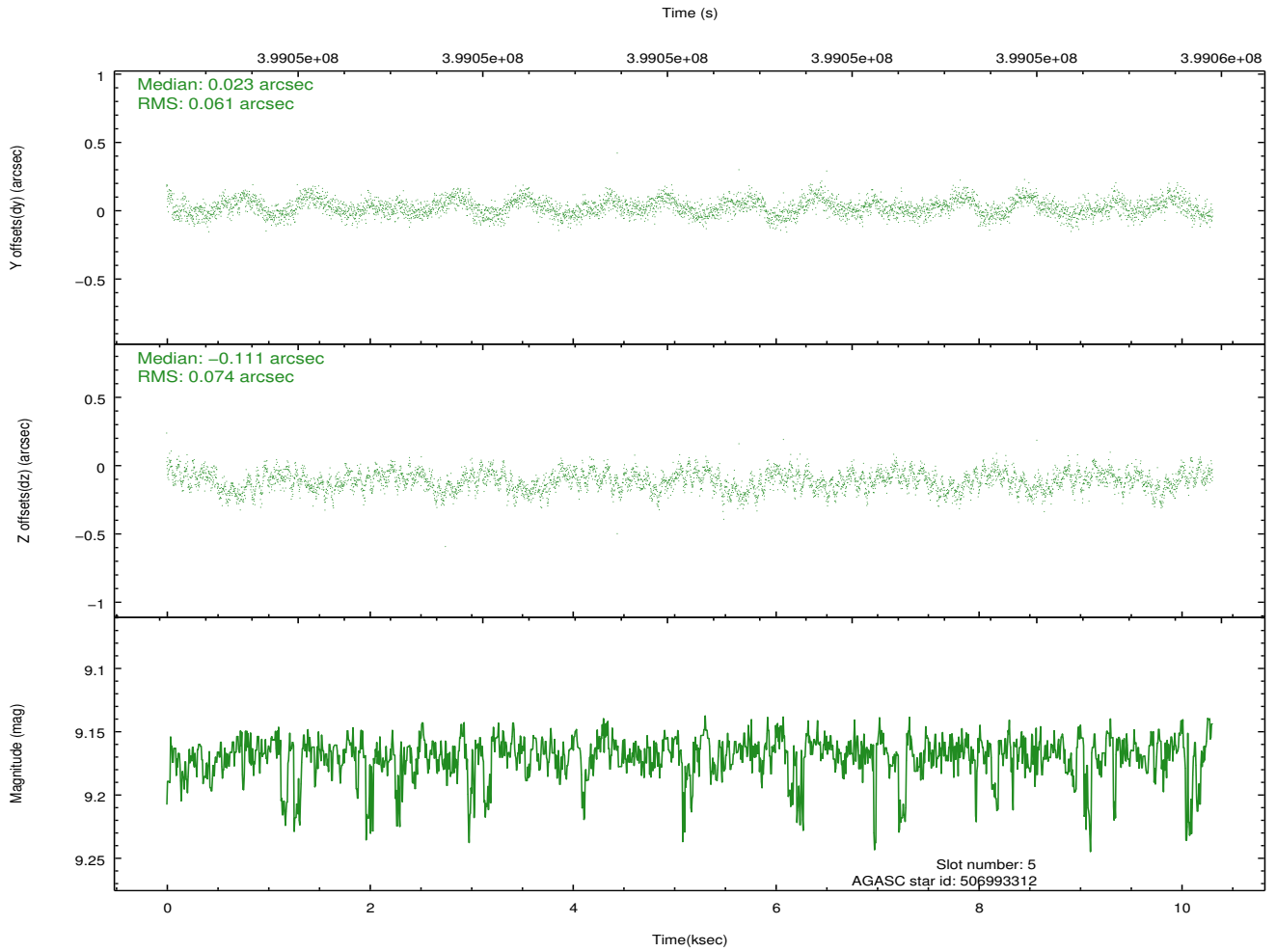
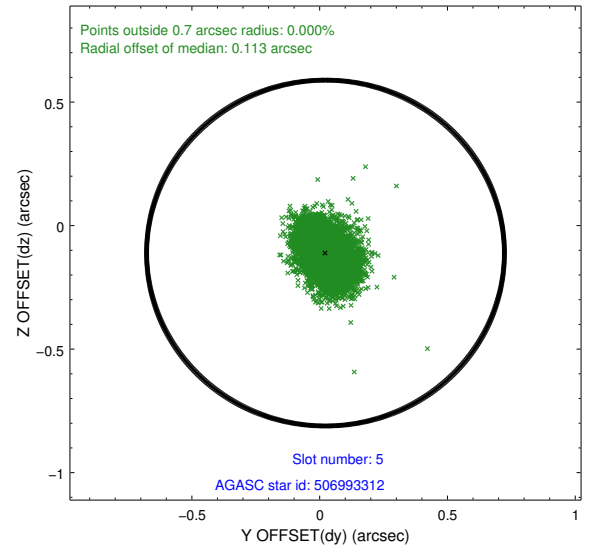
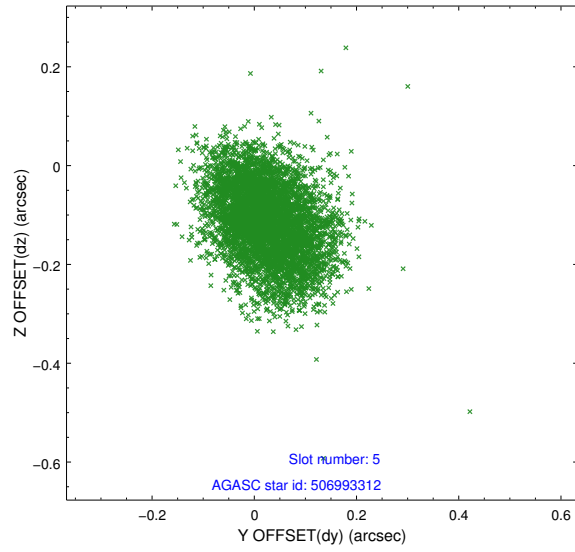
### 2.4.1 Slot 3



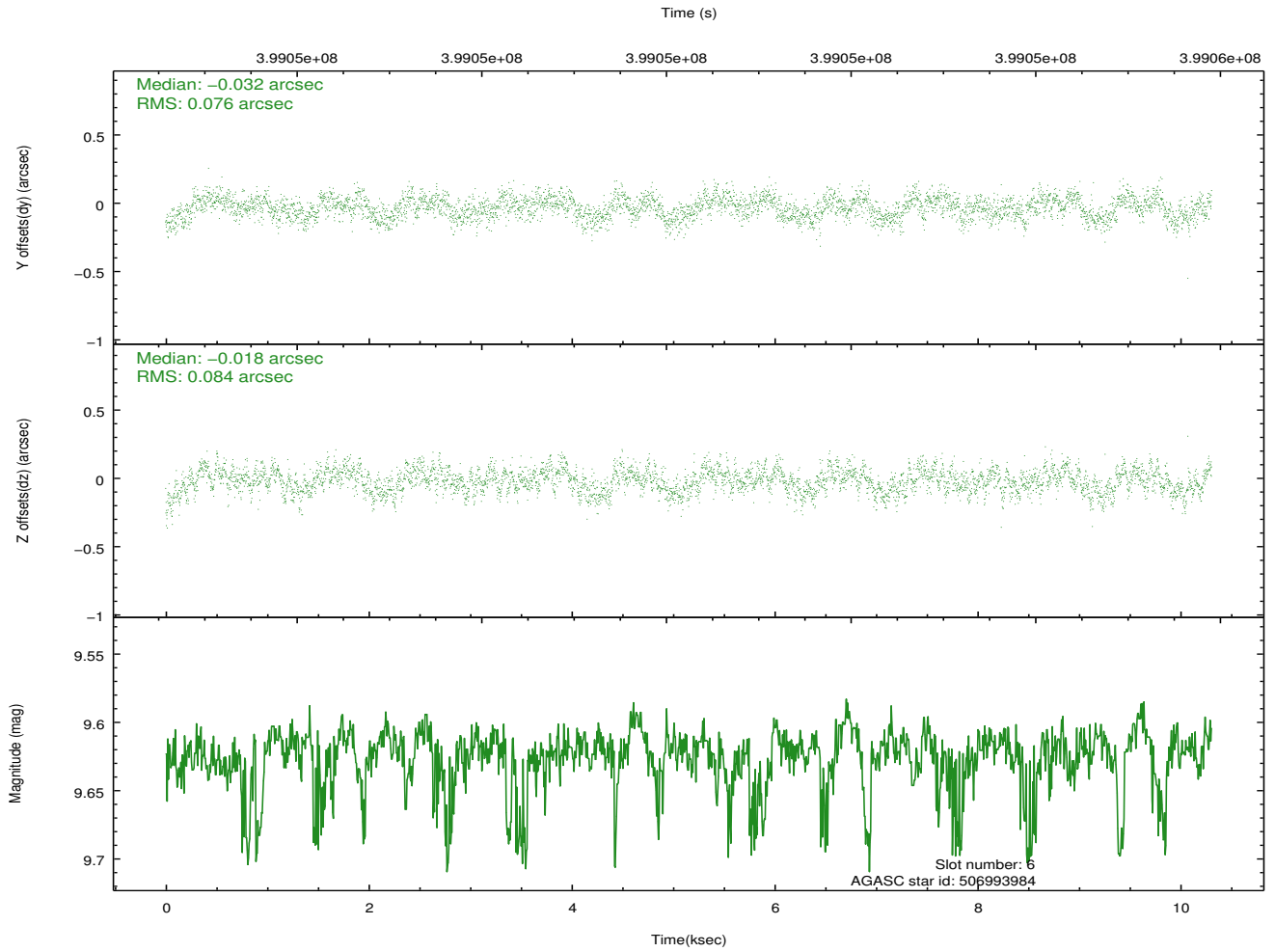
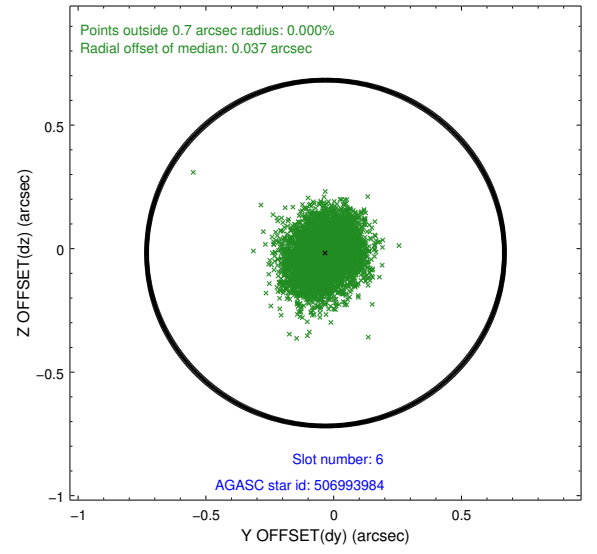
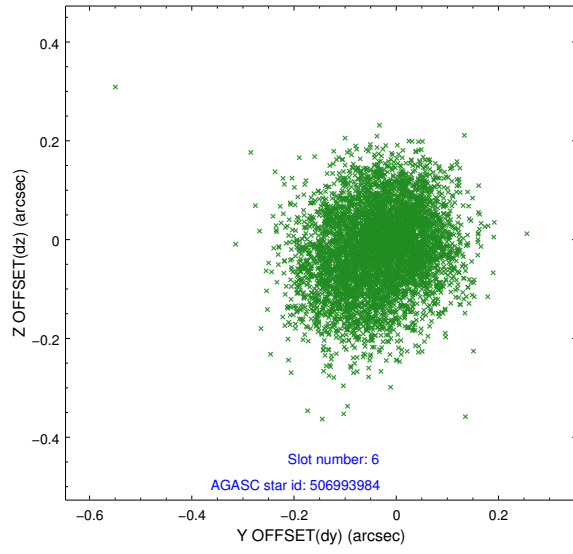
## 2.4.2 Slot 4



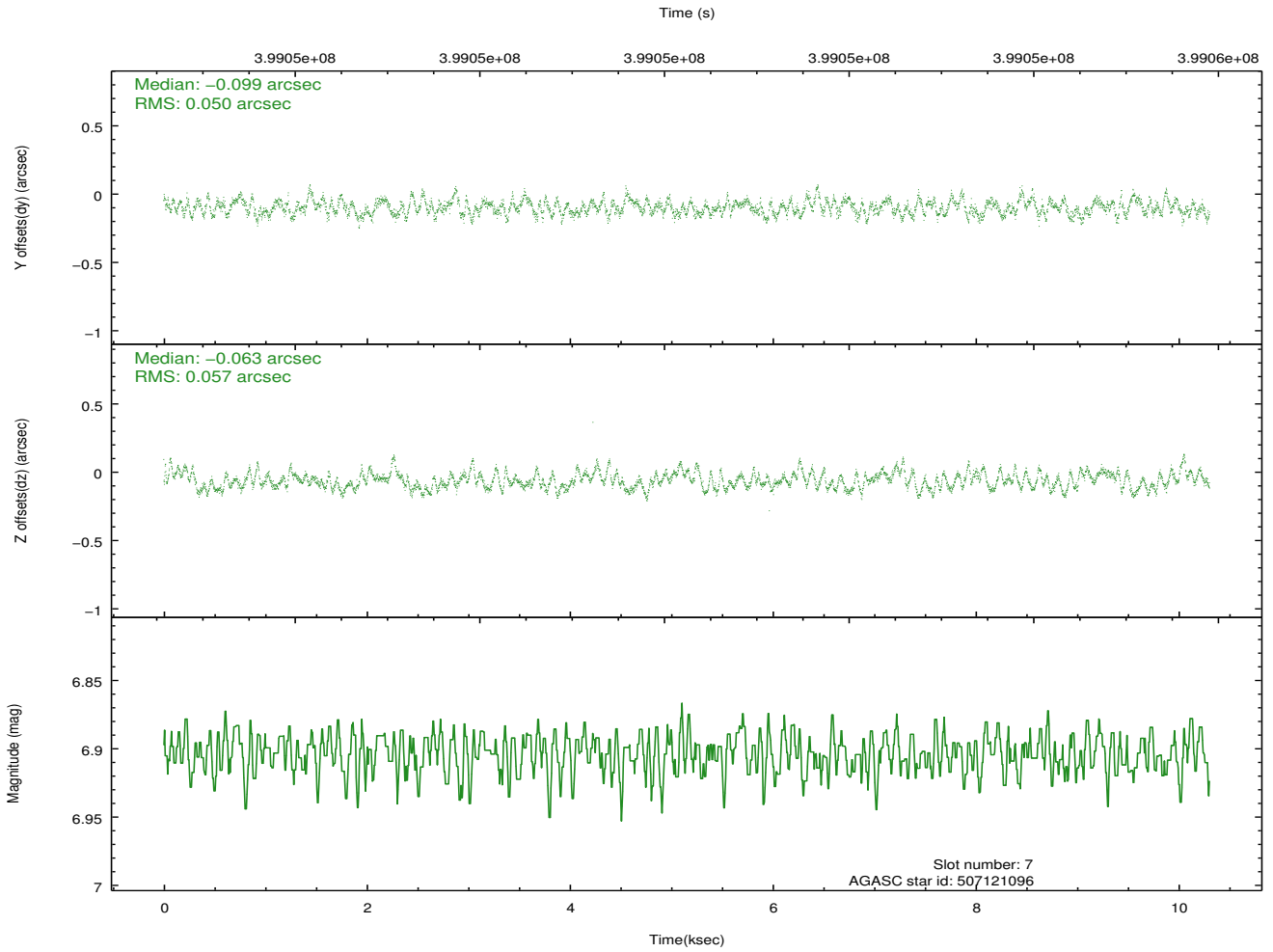
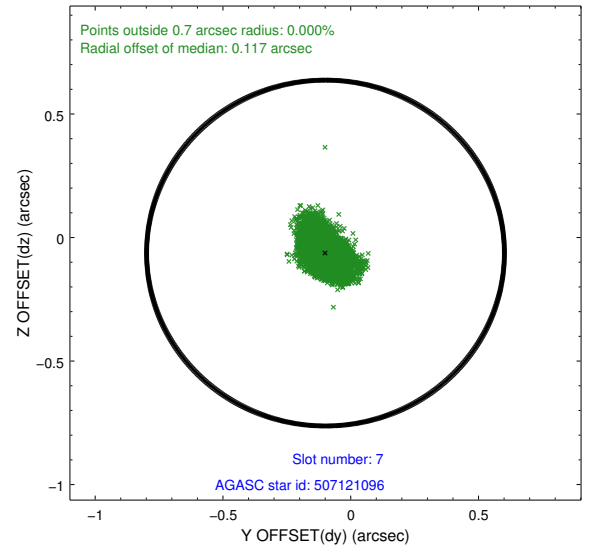
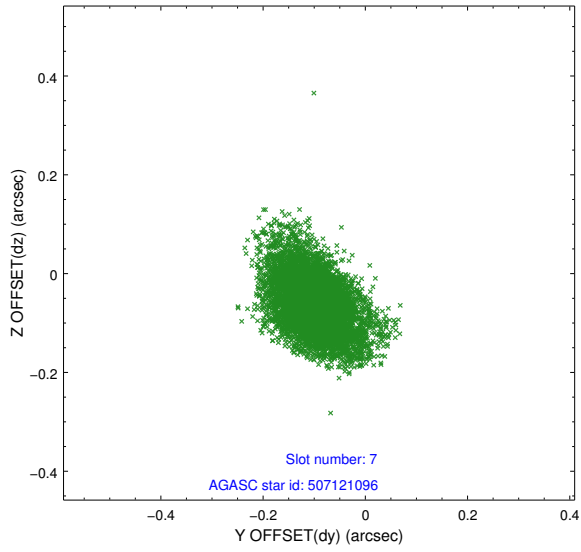
### 2.4.3 Slot 5



## 2.4.4 Slot 6

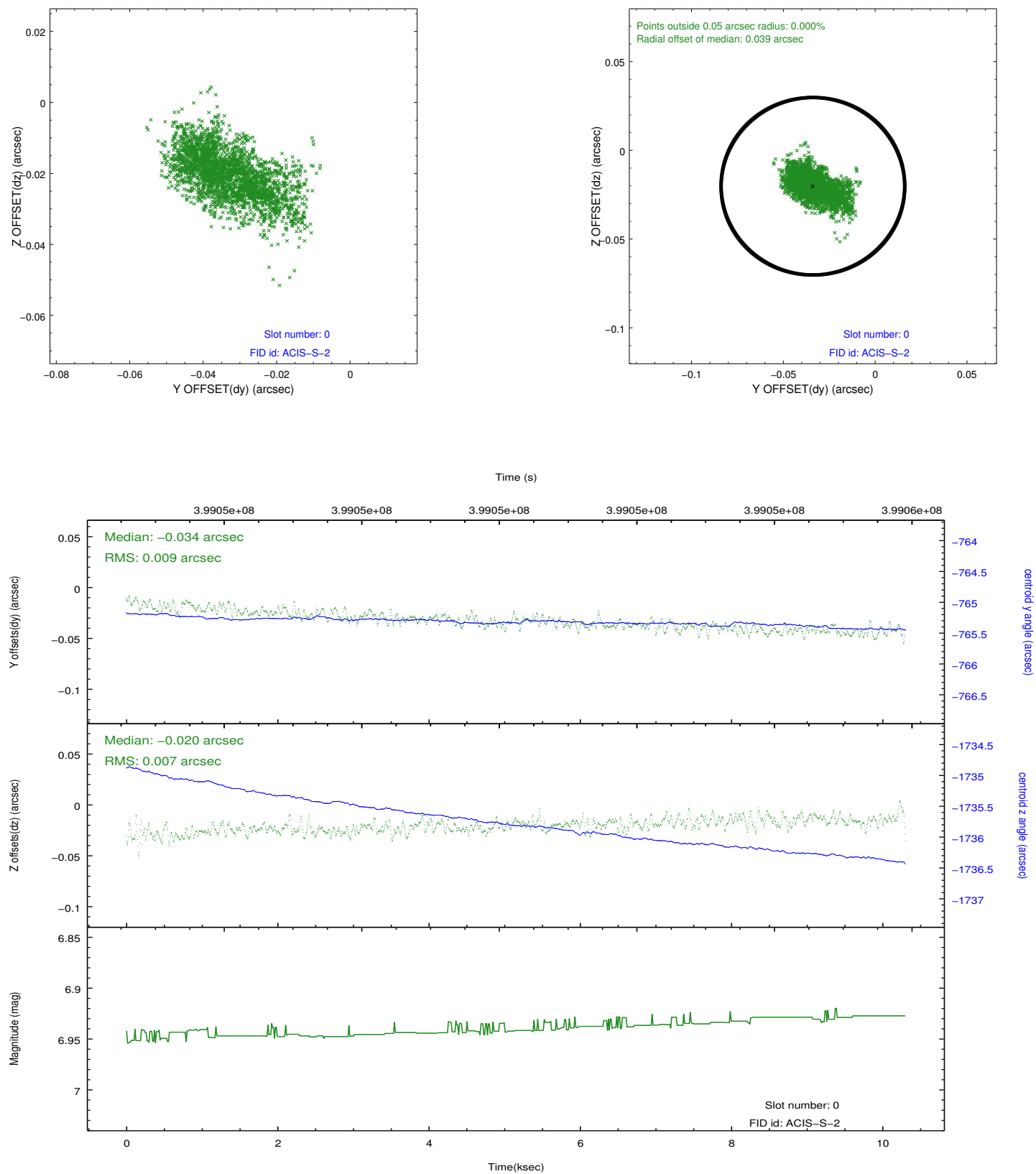


## 2.4.5 Slot 7

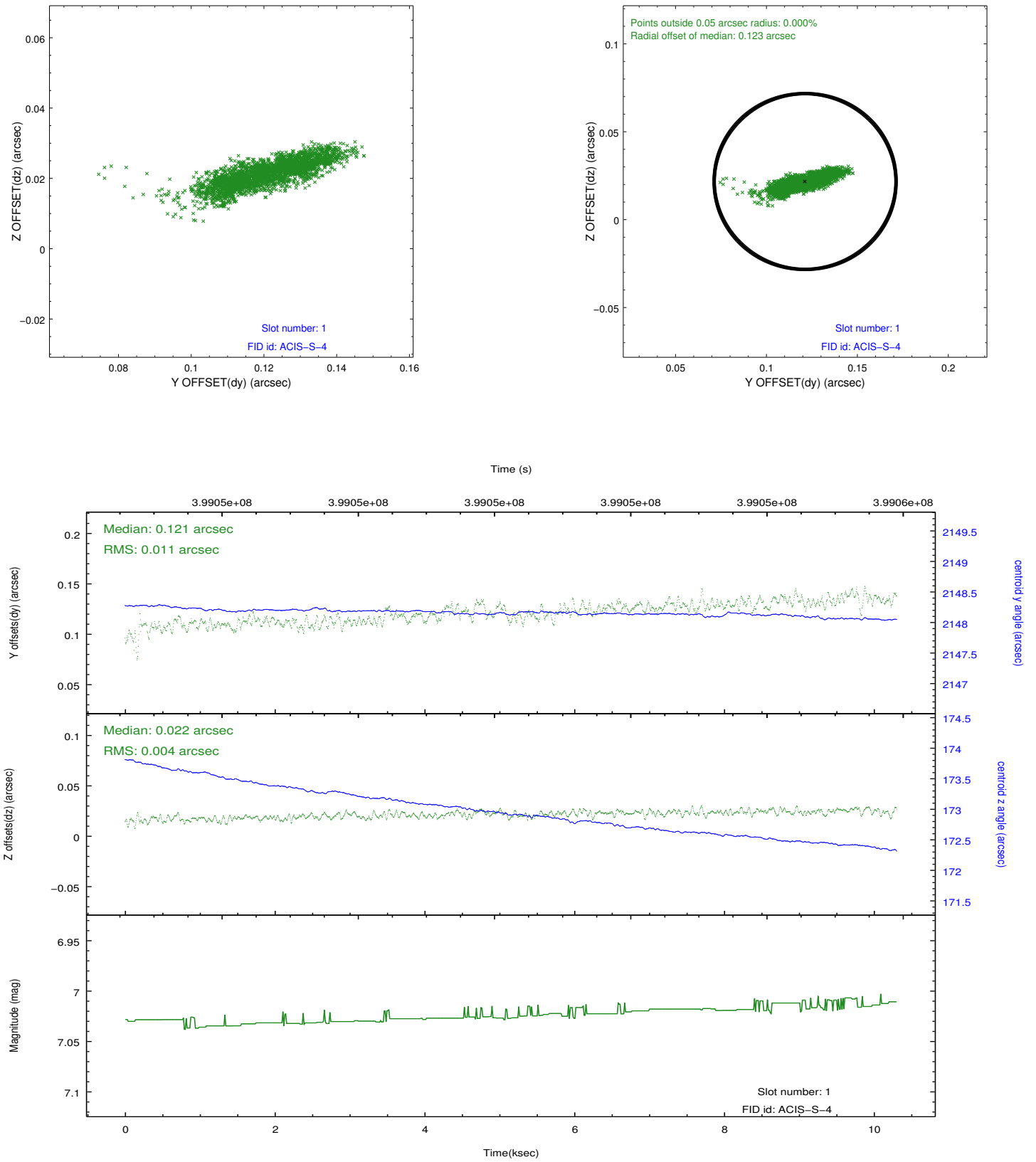


## 2.5 FID Slots

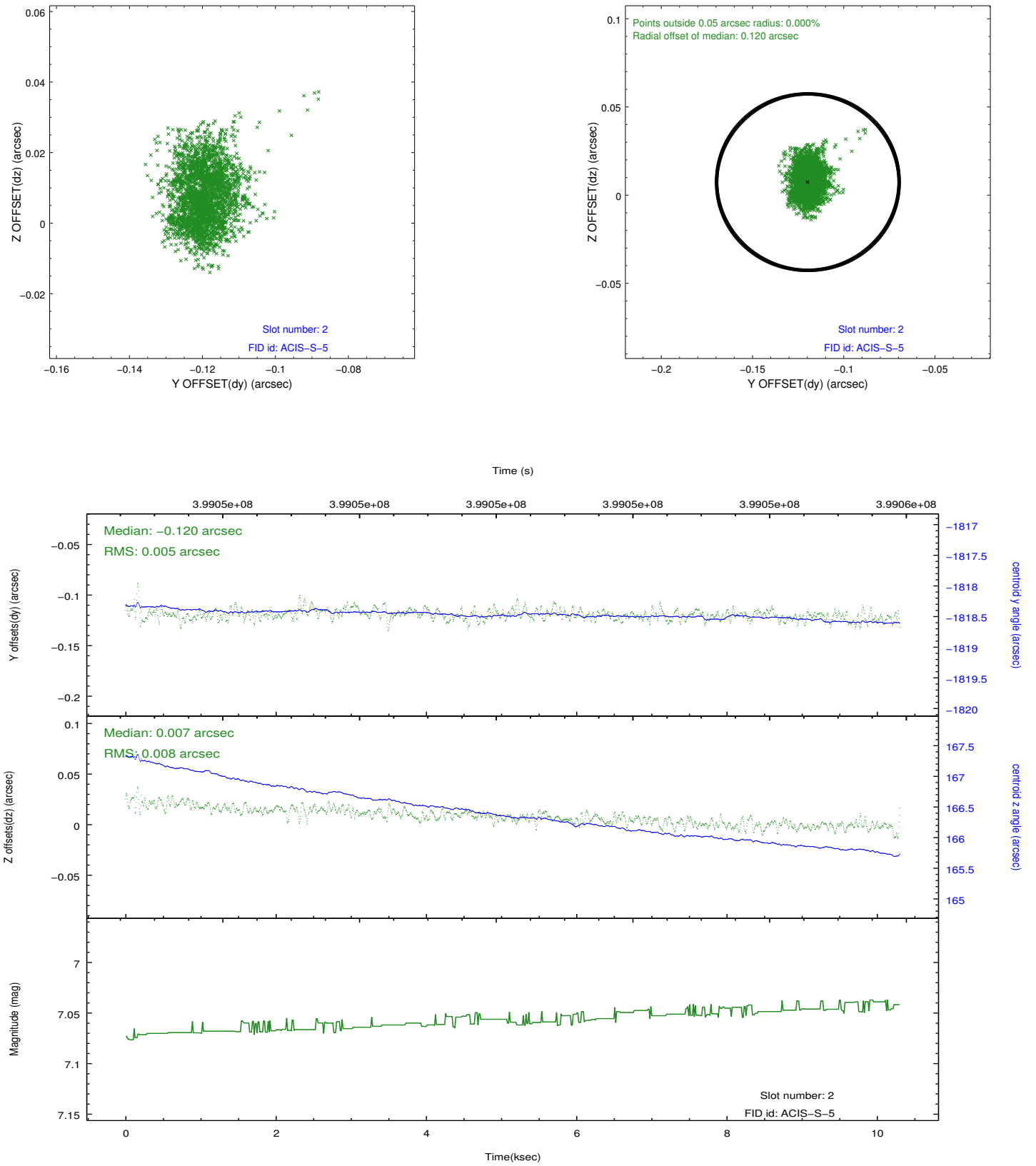
### 2.5.1 Slot 0



## 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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7503999637365

### A.2 Comments