

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12294 - L2 Version 2  
Chandra X-Ray Center

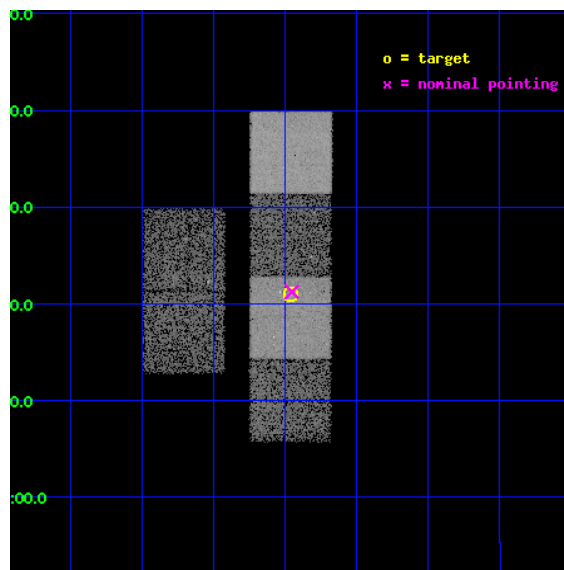
L2 Processing Date : Jul 3 2012

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# 1 Front

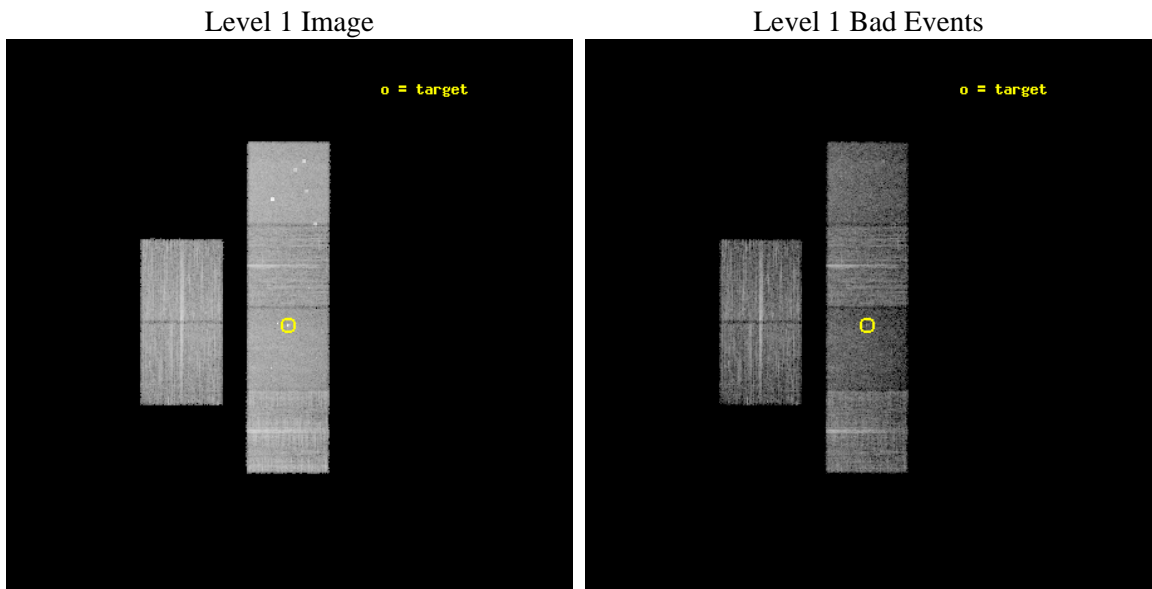
seq_num	900949	Sequence number
obs_id	12294	Observation id
title	A CHandra survey of Extended Emission-line Regions in nearby Seyfert galaxies (CHEERS)	Proposal title
observer	Dr. Junfeng Wang	Principal investigator
object	Mrk 573	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.990833	Observer's specified target RA [deg]
dec_targ	2.35	Observer's specified target Dec [deg]
ra_nom	25.988249905551	Nominal RA [deg]
dec_nom	2.3541509719052	Nominal Dec [deg]
roll_nom	90.156749506912	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10047.999962628	Sum of GTIs [s]
livetime	9920.7661369219	Livetime [s]
ontime2	10047.999962628	Sum of GTIs [s]
ontime3	10047.999962628	Sum of GTIs [s]
ontime5	10047.999962628	Sum of GTIs [s]
ontime6	10047.999962628	Sum of GTIs [s]
ontime7	10047.999962628	Sum of GTIs [s]
ontime8	10047.999962628	Sum of GTIs [s]
l2events	104070	Number of level 2 events



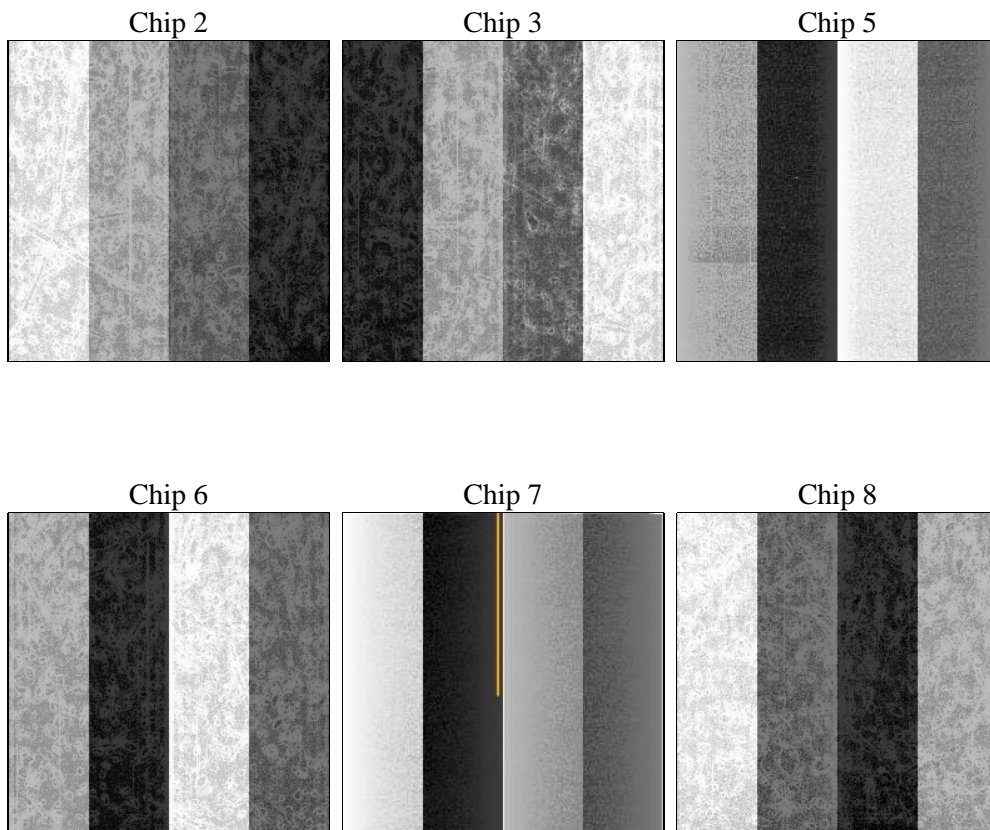
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10047.999962628	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime2	10047.999962628	Sum of GTIs [s]
date	2012-07-03T08:07:53	Date and time of file creation	ontime3	10047.999962628	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10047.999962628	Sum of GTIs [s]
			ontime6	10047.999962628	Sum of GTIs [s]
			ontime7	10047.999962628	Sum of GTIs [s]
			ontime8	10047.999962628	Sum of GTIs [s]
			l1events	454080	Number of level 1 events

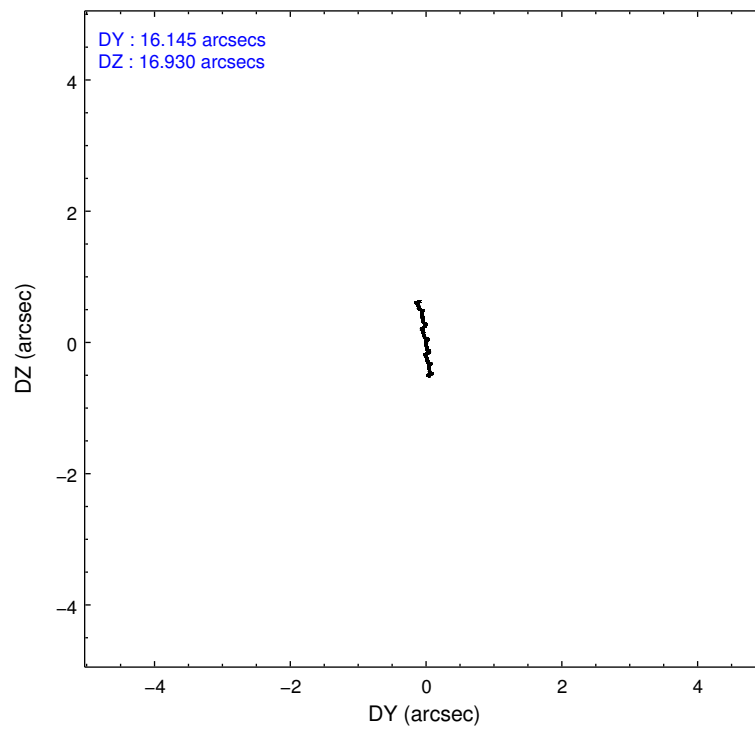
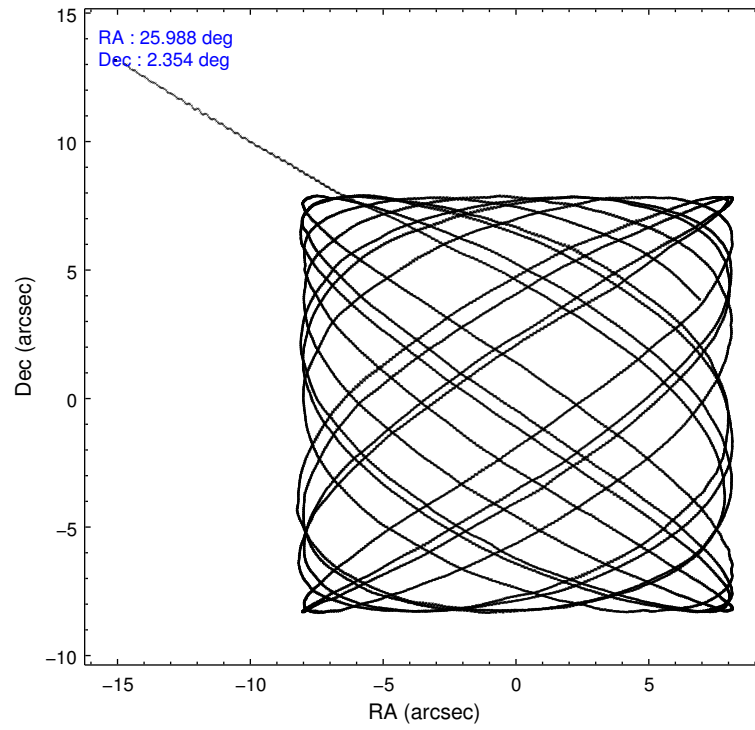
### 2.1.4 Events

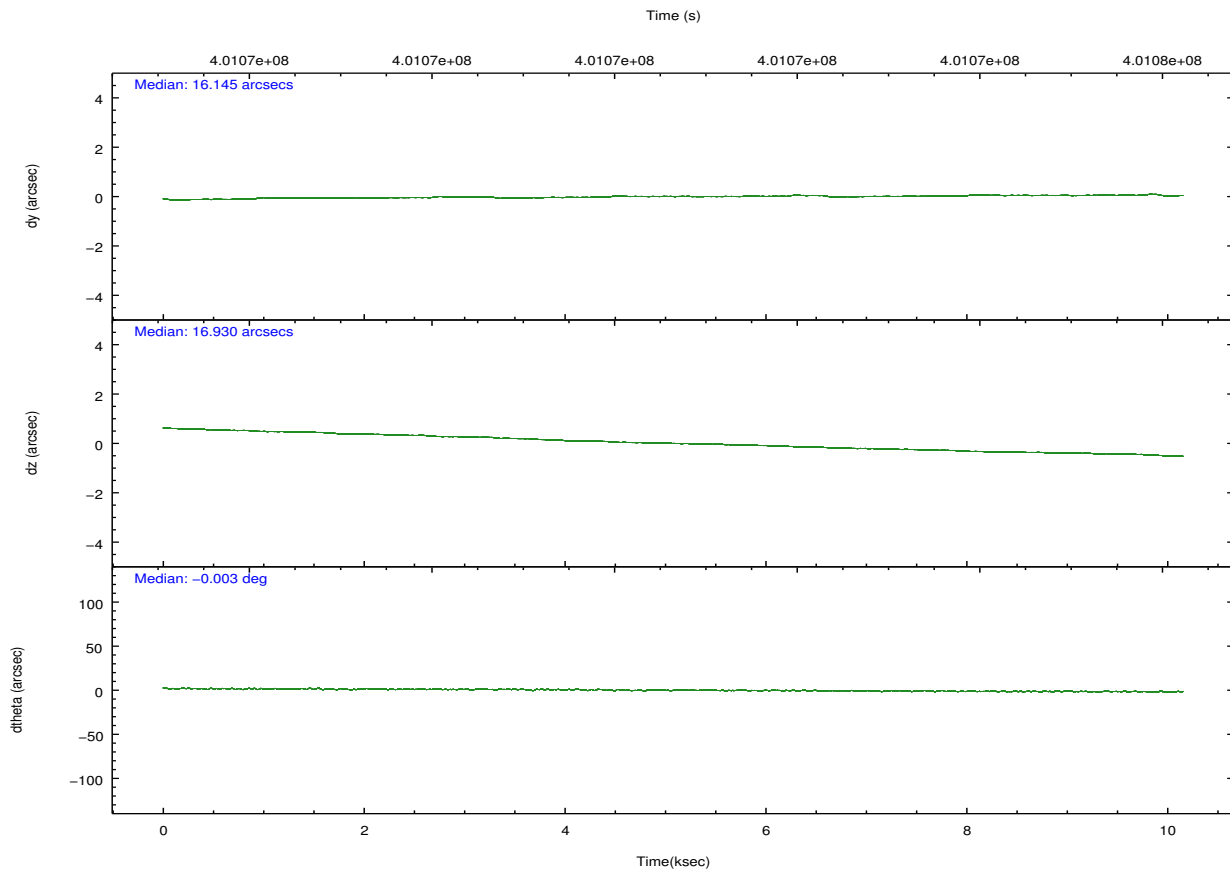
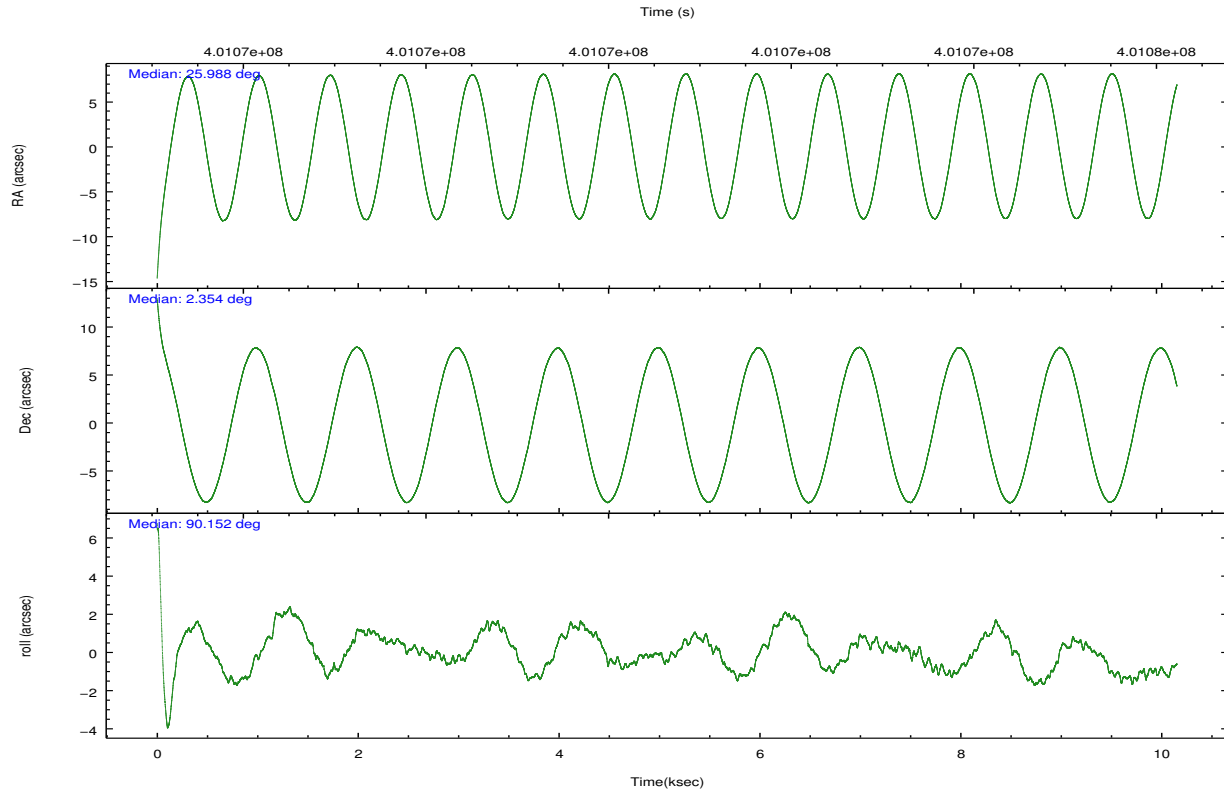
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	71784	62626	94551	67355	70931	86833	grade 0 events	2673	2313	6890	2764	3846	6479
rejected events	64608	56223	44165	59905	35848	63069		3%	3%	7%	4%	5%	7%
rejected %	90%	89%	46%	88%	50%	72%	grade 1 events	46	37	235	29	132	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	1716	1448	15028	1693	7491	5953
								2%	2%	15%	2%	10%	6%
							grade 3 events	708	754	2030	728	3293	2450
								0%	1%	2%	1%	4%	2%
							grade 4 events	730	677	1962	761	3149	2368
								1%	1%	2%	1%	4%	2%
							grade 5 events	2151	2554	7374	2604	7373	3946
								2%	4%	7%	3%	10%	4%
							grade 6 events	1354	1215	24516	1506	17340	6519
								1%	1%	25%	2%	24%	7%
							grade 7 events	62406	53628	36516	57270	28307	59044
								86%	85%	38%	85%	39%	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	26.002336	25.98824990555139	CCD I2 on	O4	Y
[deg] Pointing Dec	2.330668	2.354150971905224	CCD I3 on	O3	Y
[deg] Pointing Roll	89.999532	90.15674950691186	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O5	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	401065719.184000	401064584.6383	CCD S5 on	N	N
Observation start date	2010-09-16T23:07:33	2010-09-16T22:49:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	401075719.184000	401076652.98892	On-chip summing requested	N	N
Observation end date	2010-09-17T01:54:13	2010-09-17T02:10:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



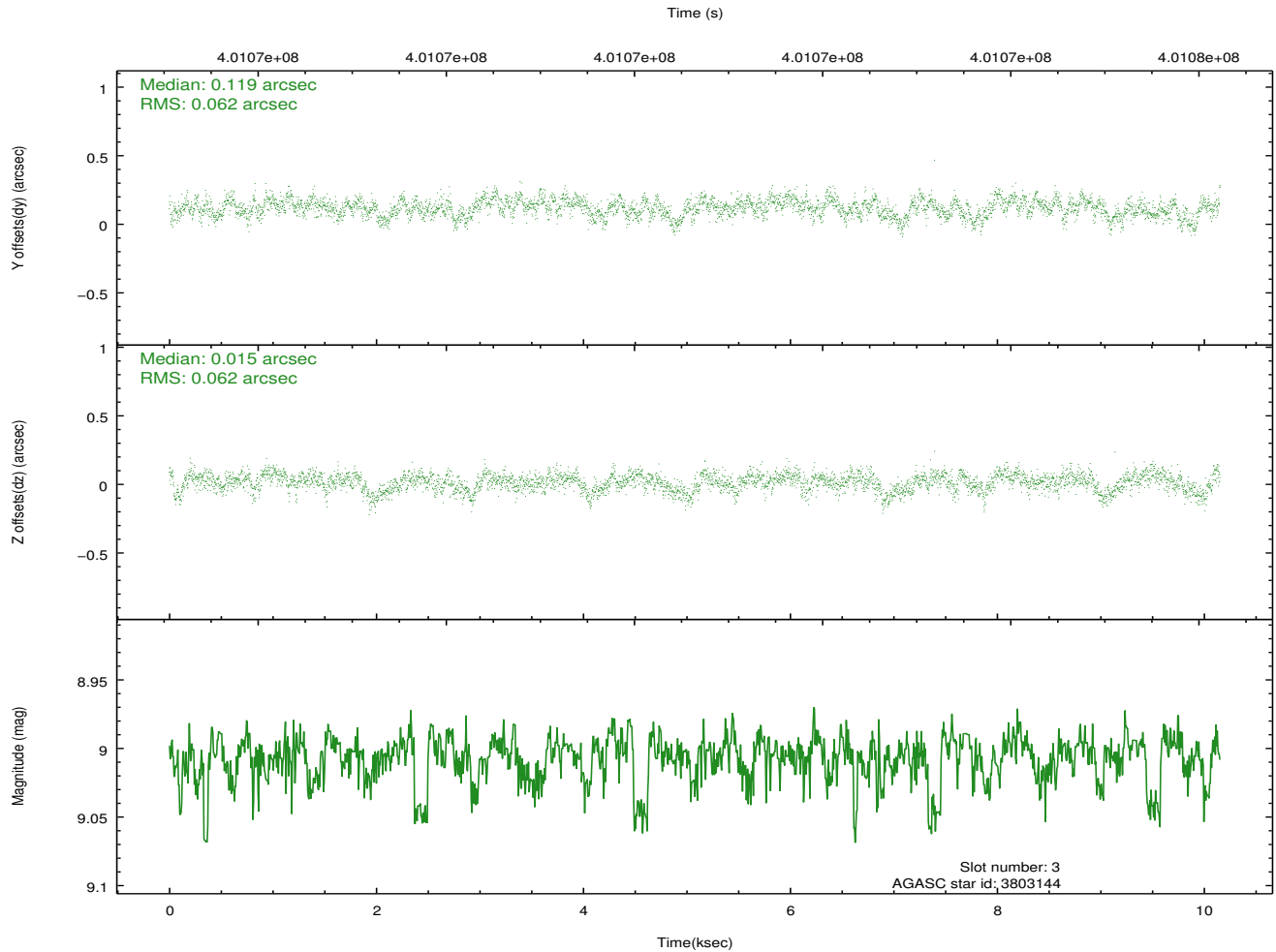
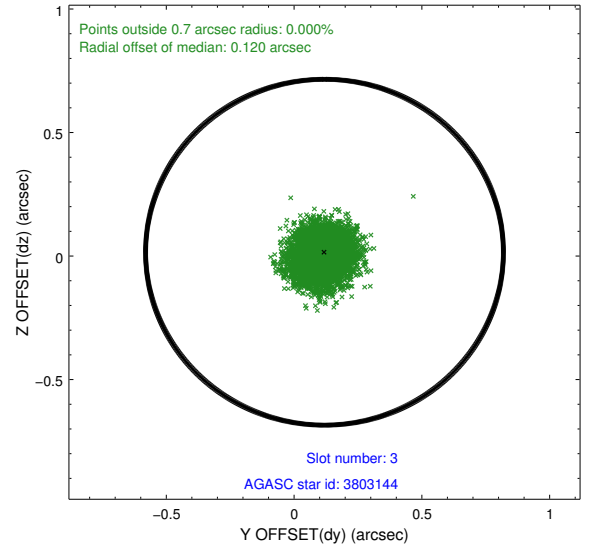
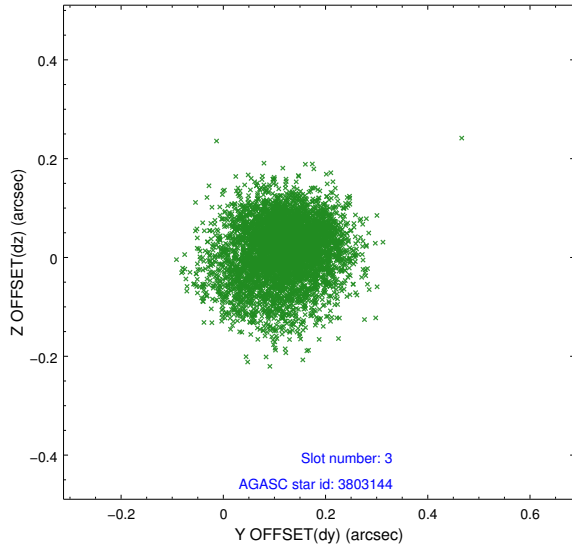


### Slot Statistics

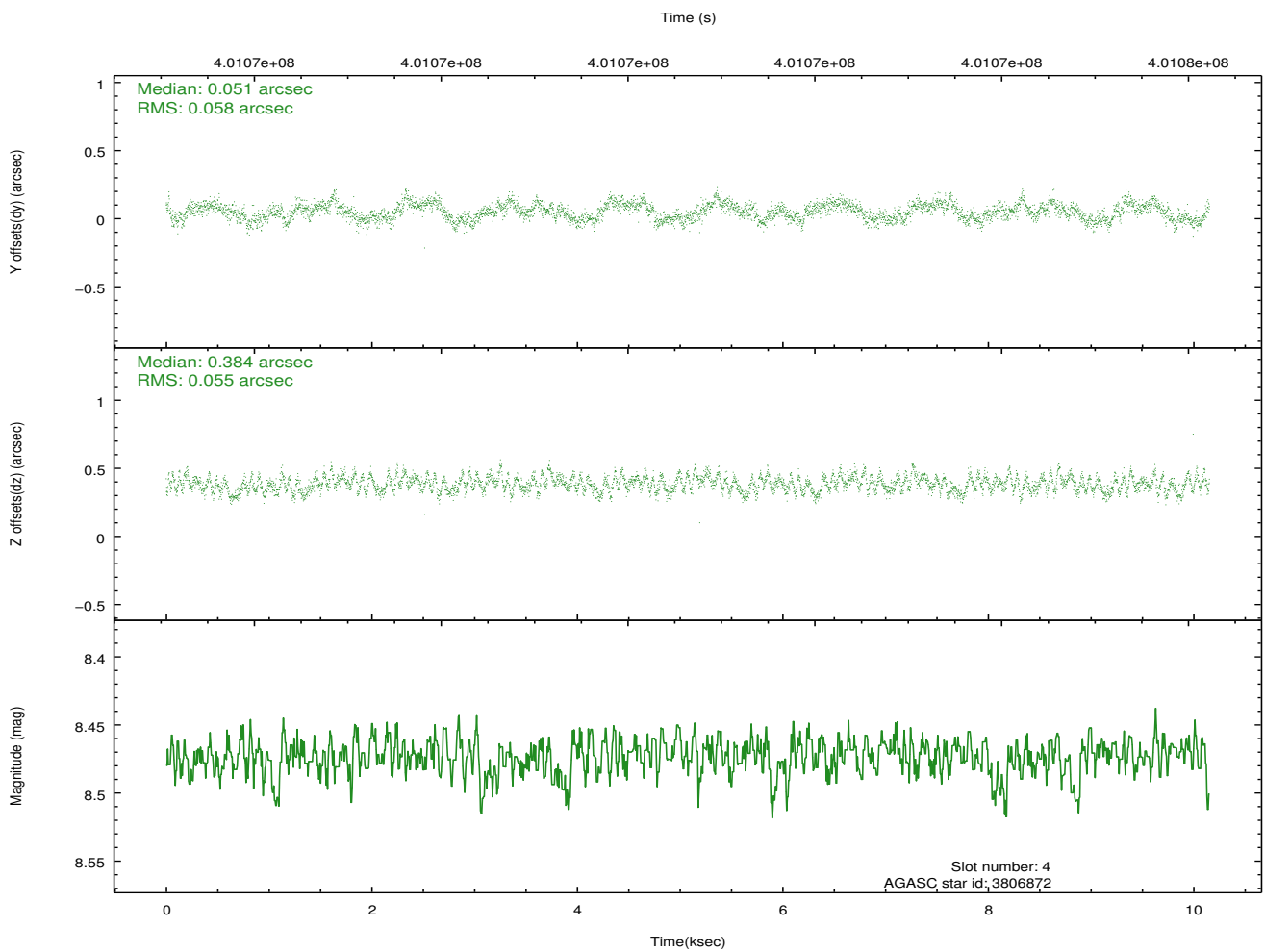
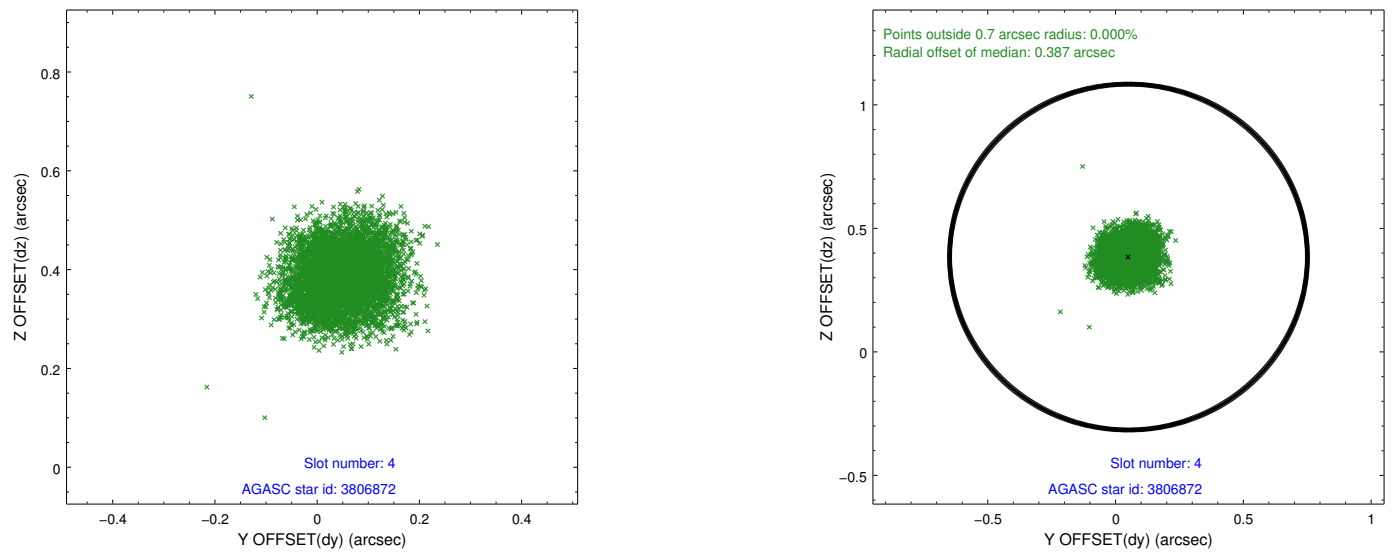
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	2477	-0.072	-0.011	0.012	0.024	0.000000	0.000000	-769.24	-1738.33
1	FID	ACIS-S-4	6.96	2477	0.149	0.039	0.008	0.015	0.000000	0.000000	2144.06	169.61
2	FID	ACIS-S-5	6.99	2477	-0.108	-0.017	0.011	0.026	0.000000	0.000000	-1821.42	163.89
3	GUIDE	3803144	9.01	4950	0.119	0.015	0.094	0.153	25.484135	1.902592	-1542.61	1866.03
4	GUIDE	3806872	8.47	4952	0.051	0.384	0.087	0.134	26.148027	1.973453	-1286.39	-523.31
5	GUIDE	3808576	8.34	4951	0.100	-0.356	0.066	0.108	25.433389	1.909231	-1517.22	2046.60
6	GUIDE	4194920	8.64	4954	-0.019	0.164	0.103	0.159	26.080477	2.615510	1024.81	-279.42
7	GUIDE	4197368	7.74	4953	-0.247	-0.206	0.063	0.098	25.471433	2.704386	1345.67	1908.86

## 2.4 Star Slots

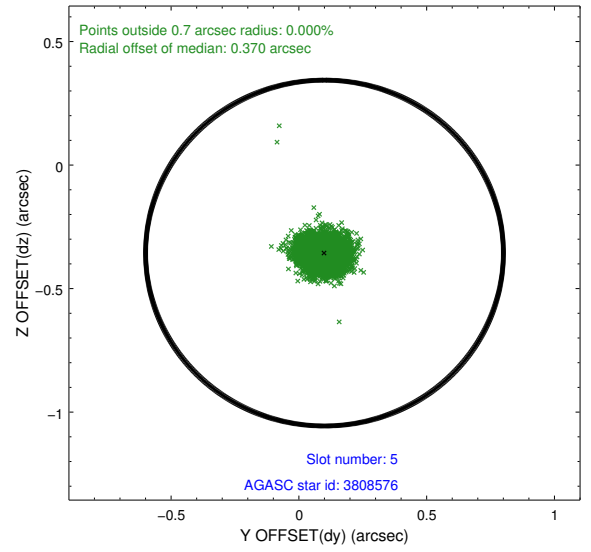
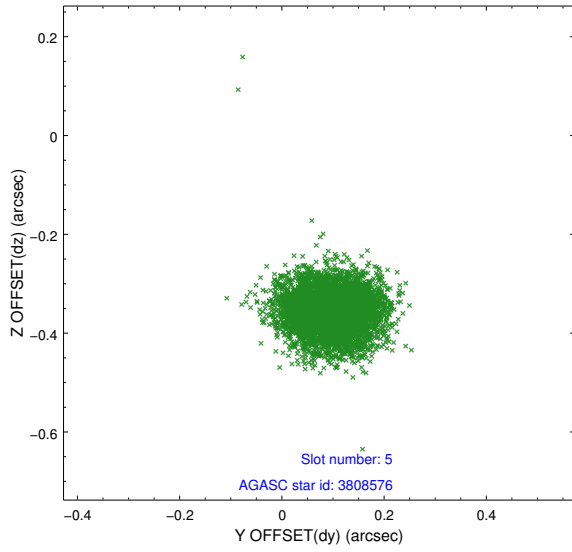
### 2.4.1 Slot 3



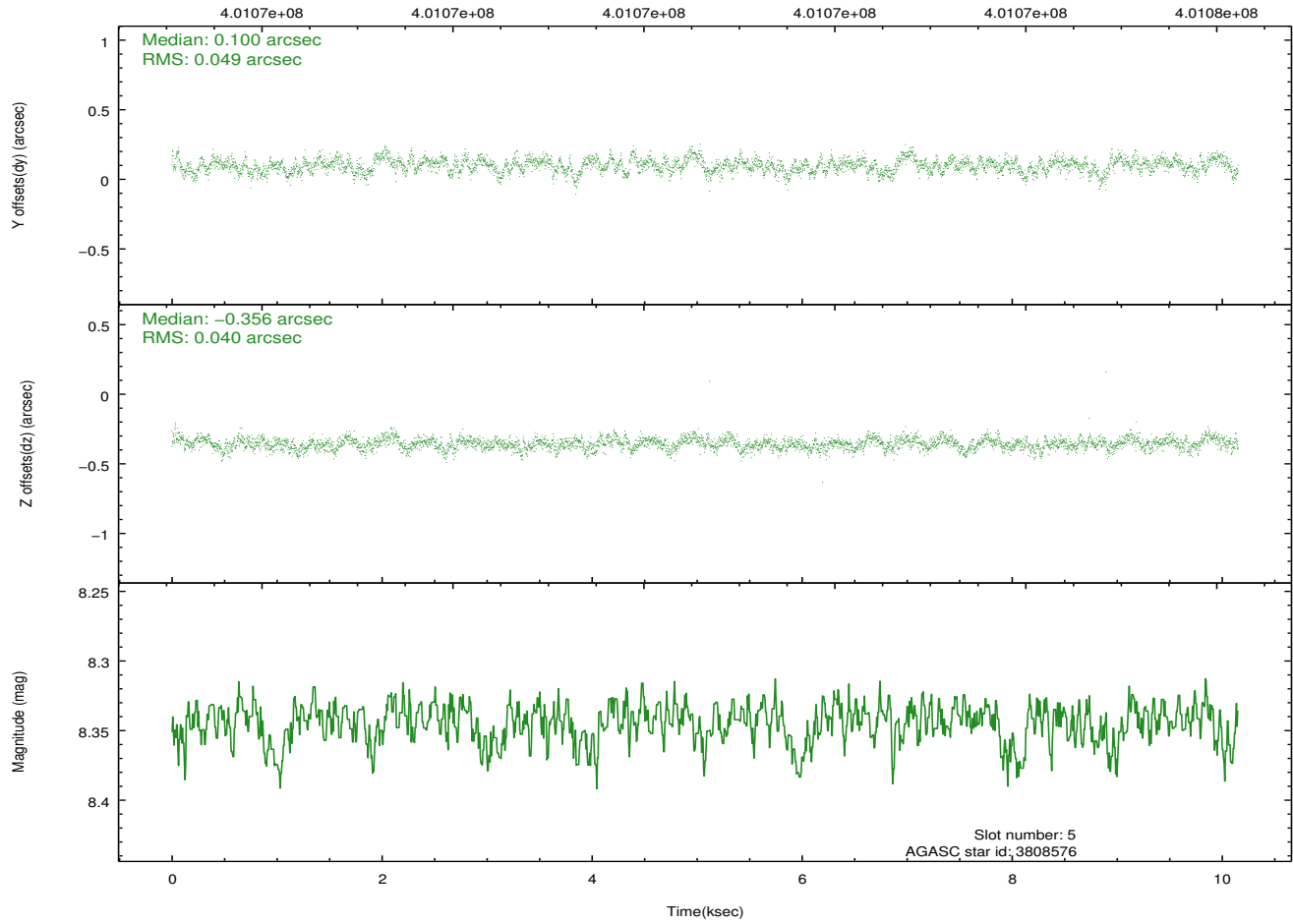
## 2.4.2 Slot 4



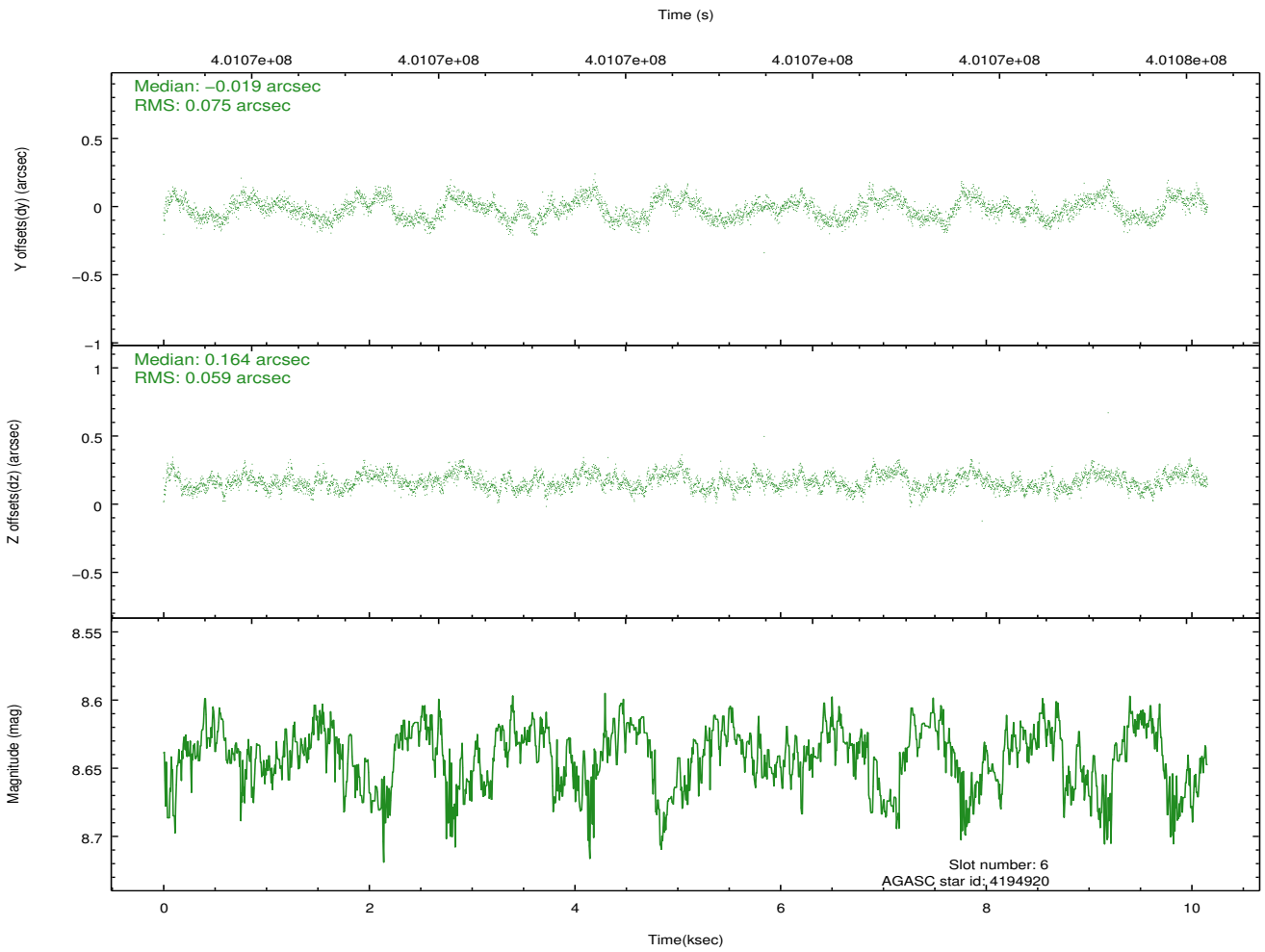
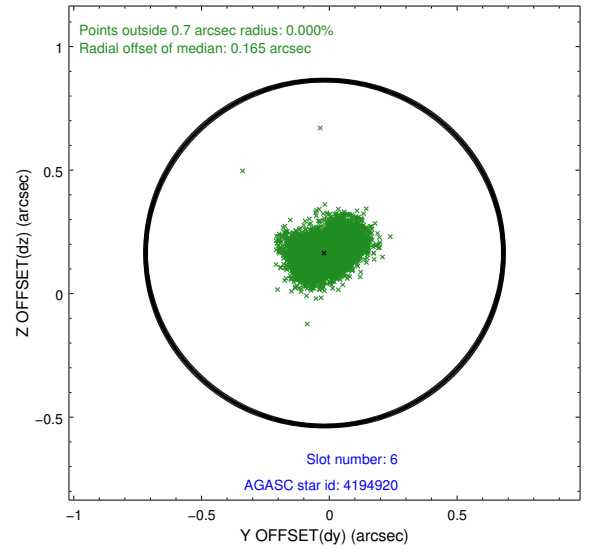
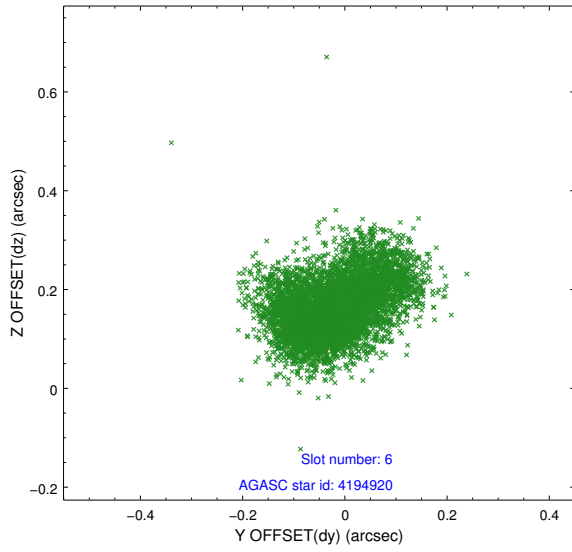
### 2.4.3 Slot 5



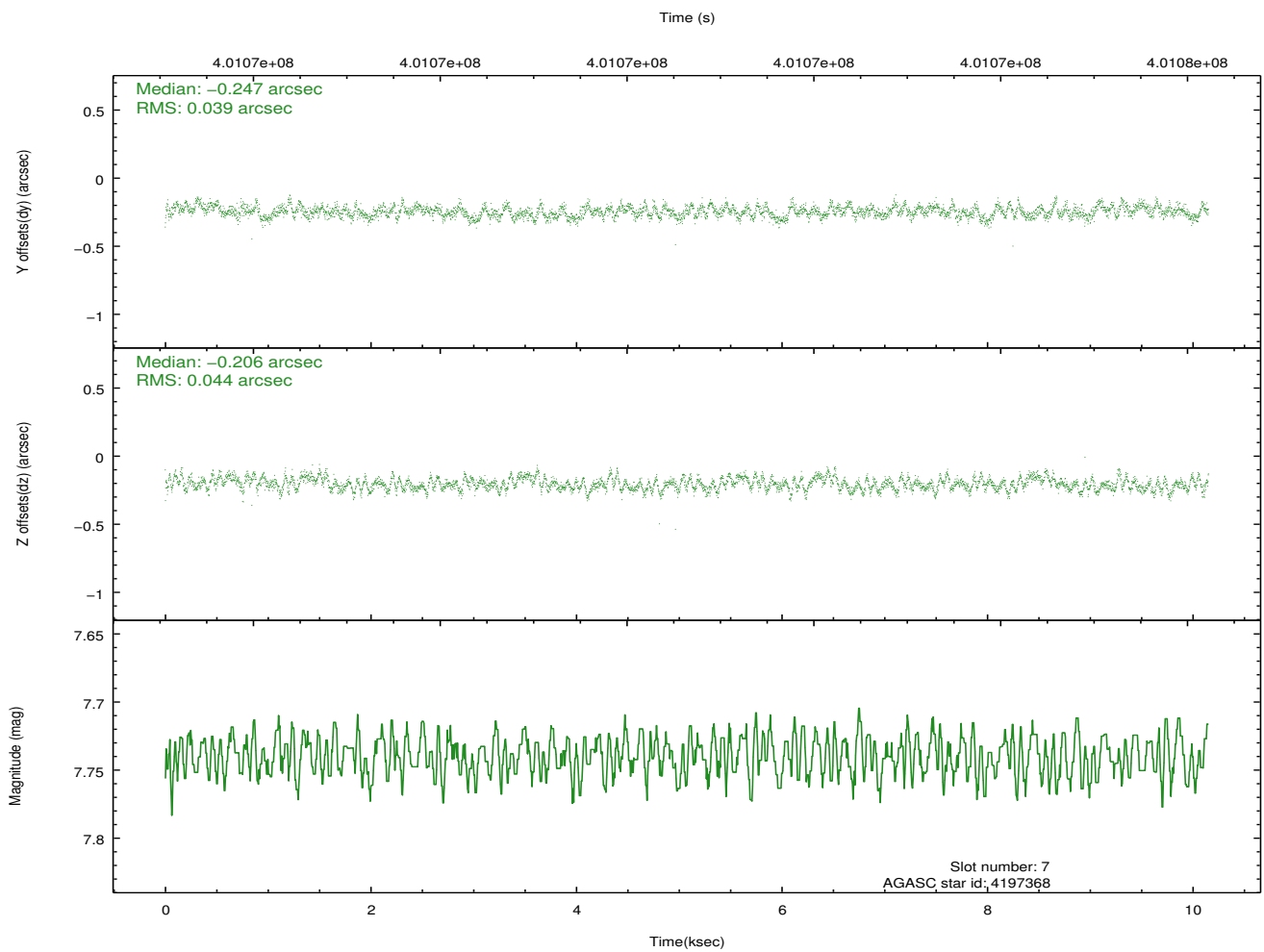
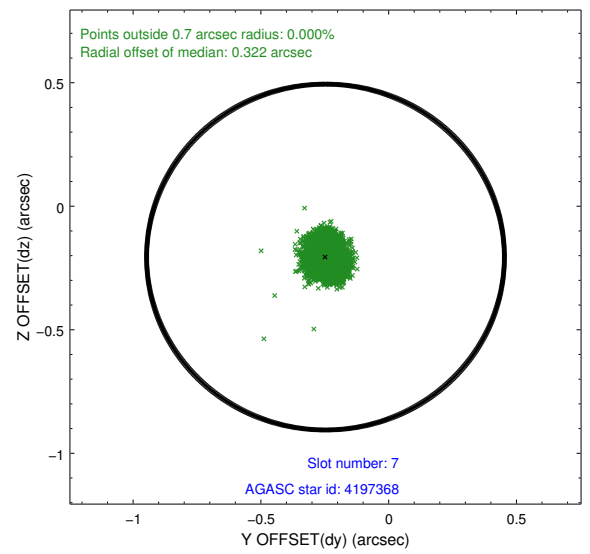
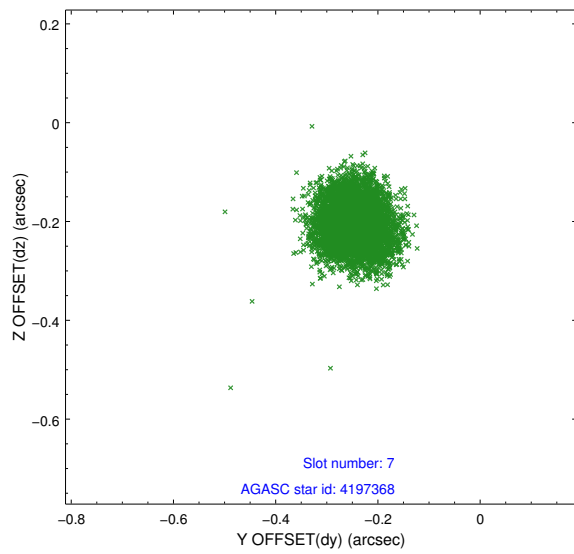
Time (s)



### 2.4.4 Slot 6

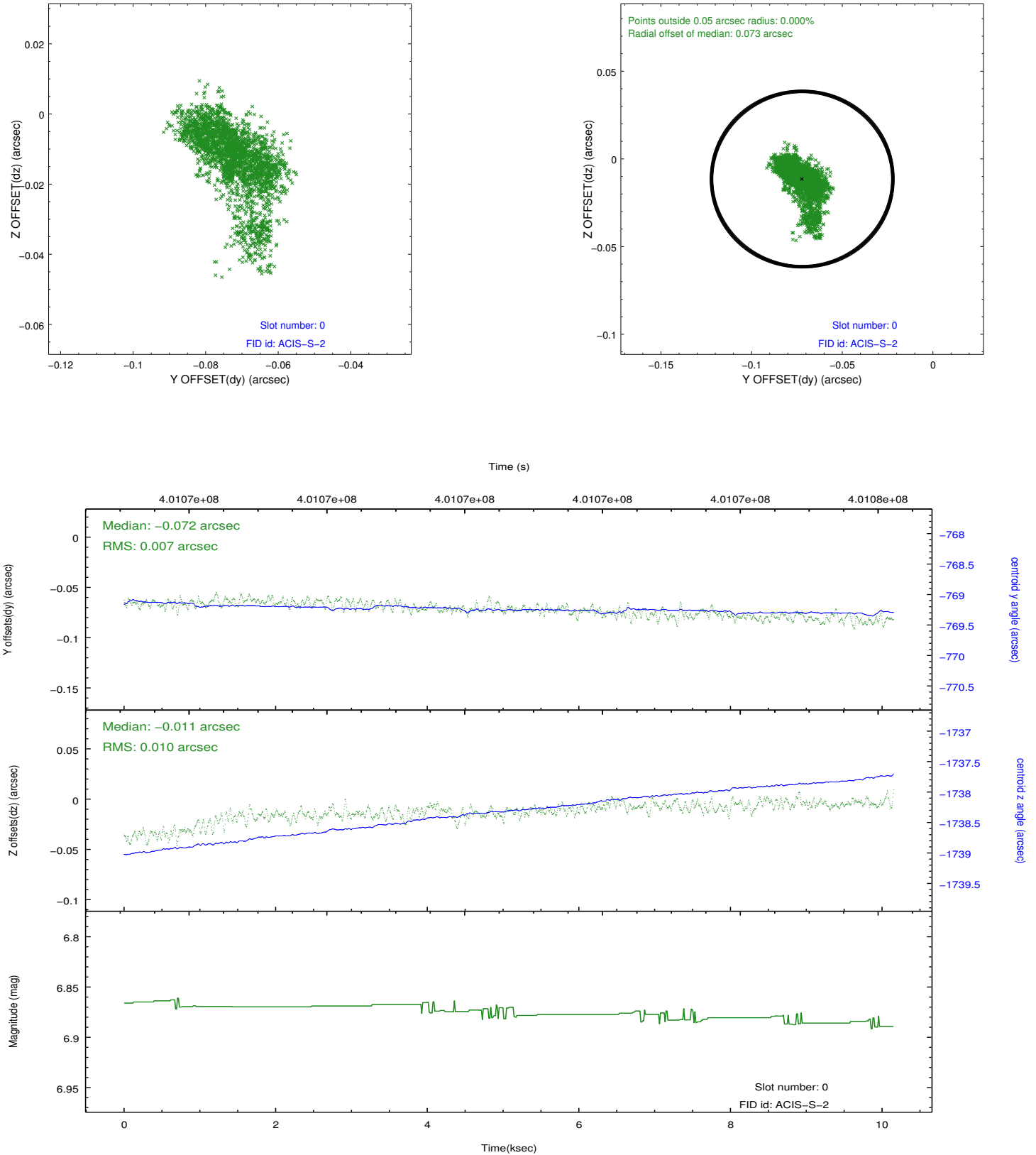


## 2.4.5 Slot 7

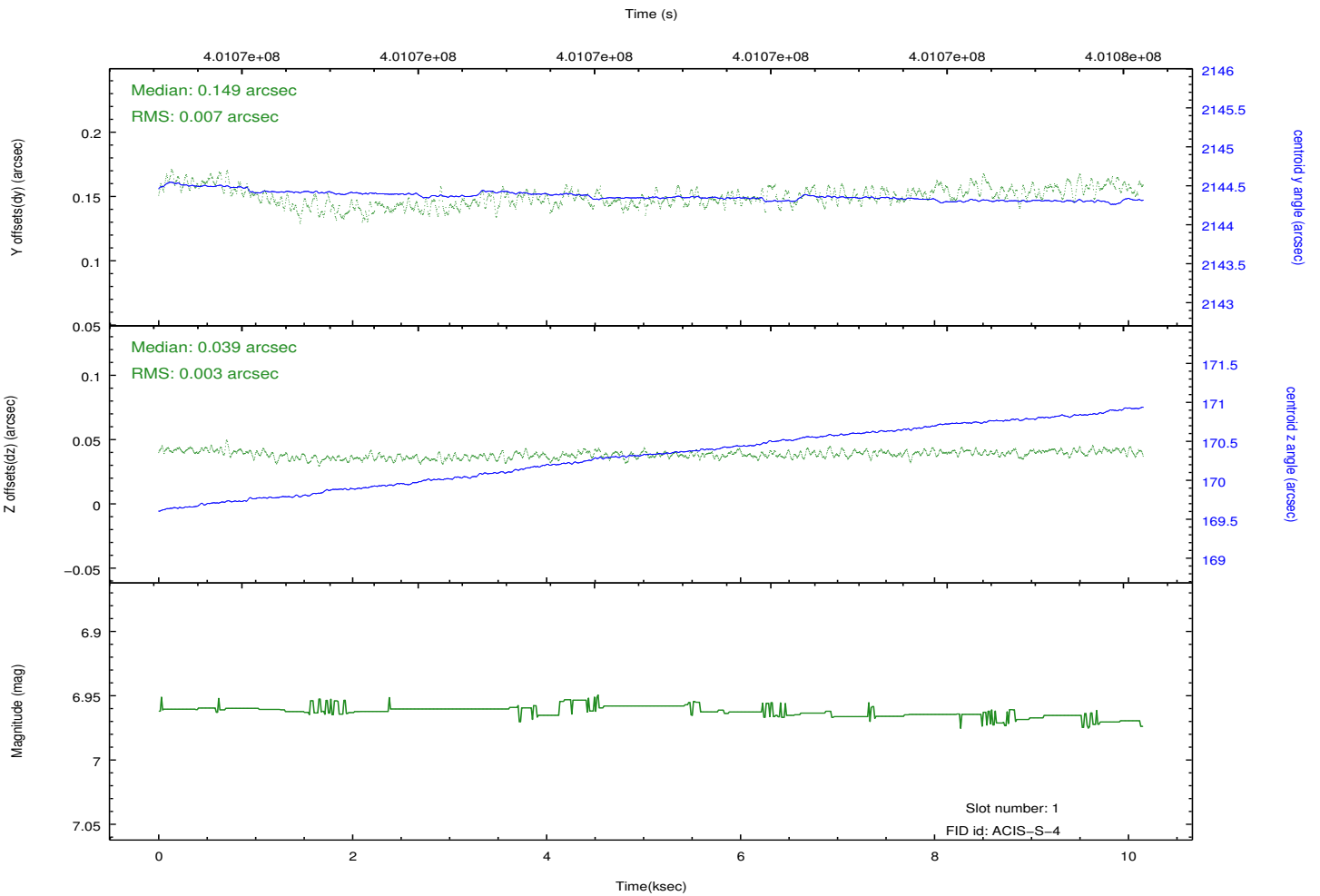
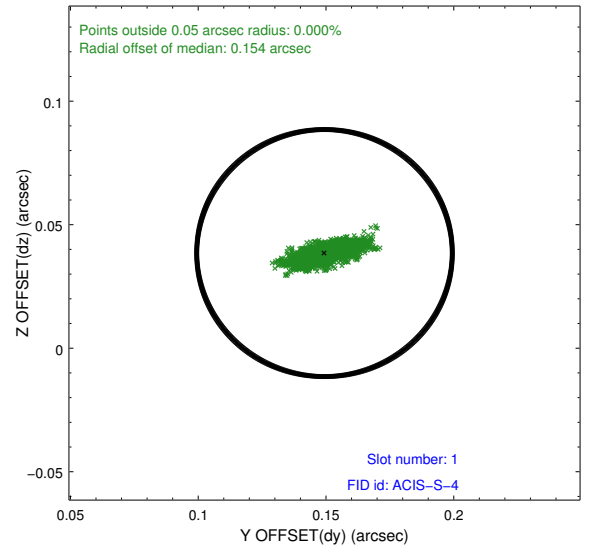
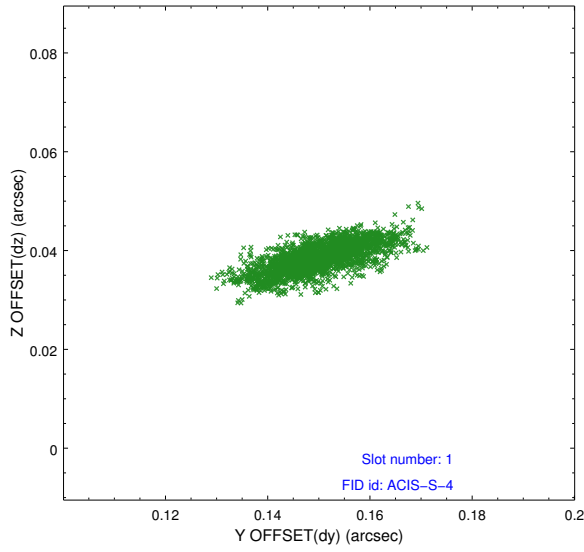


## 2.5 FID Slots

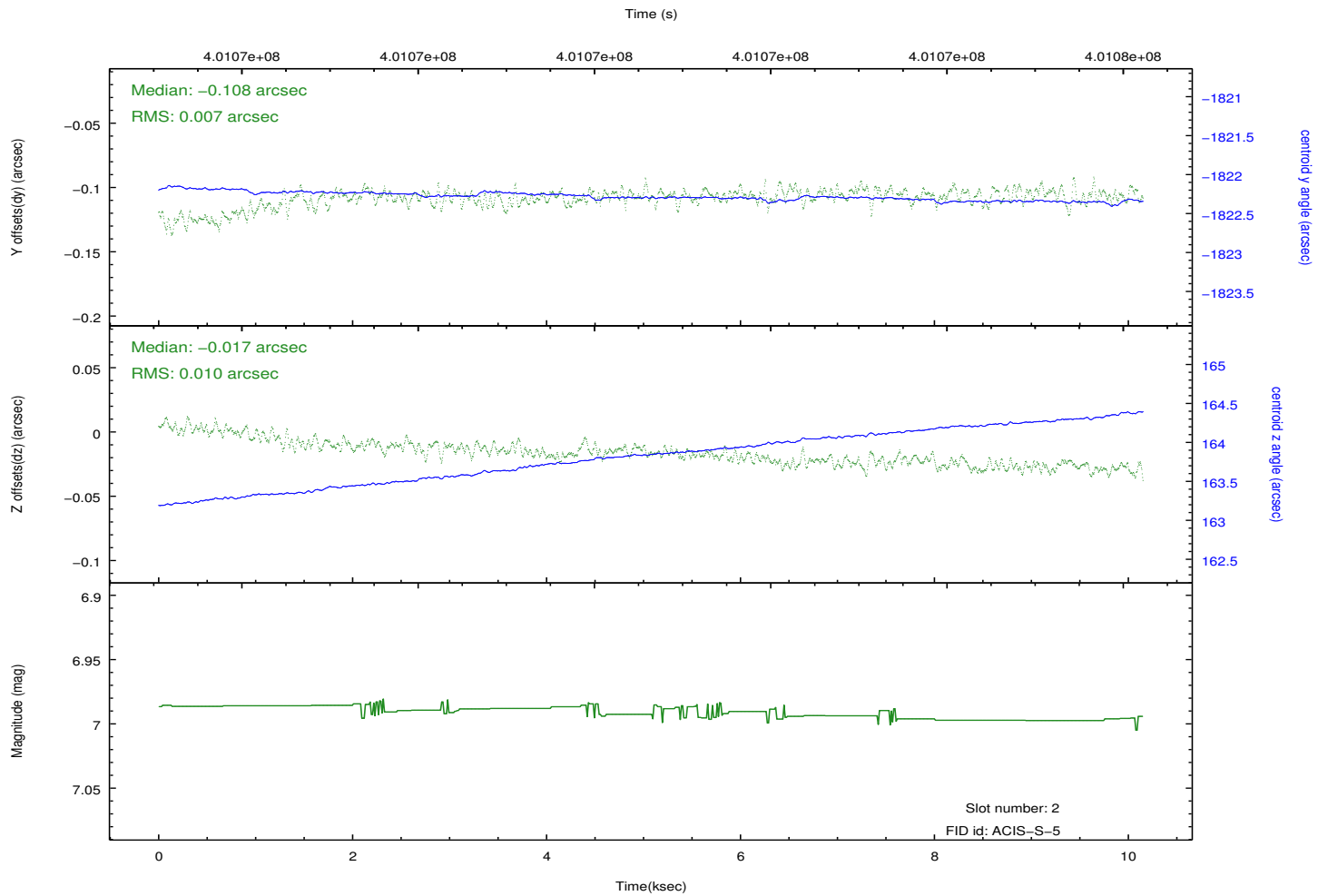
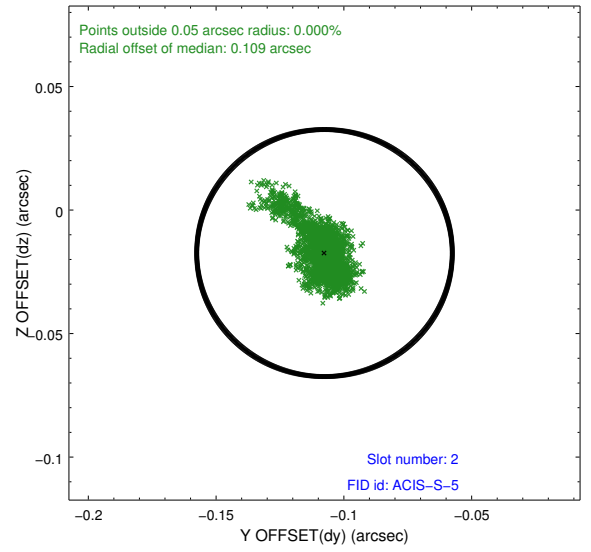
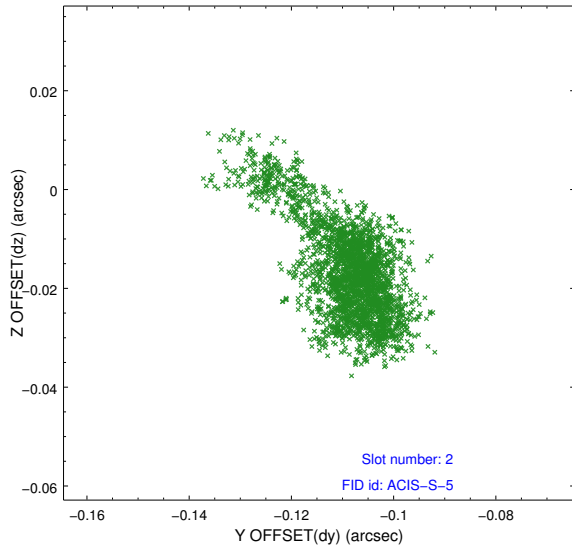
### 2.5.1 Slot 0



## 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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.047999962628

## A.2 Comments

Joint Proposal: HST