

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7819 - L2 Version 2  
Chandra X-Ray Center

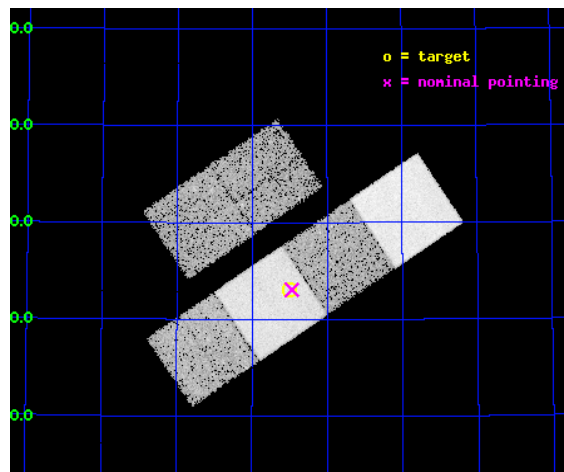
L2 Processing Date : Apr 27 2012

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# 1 Front

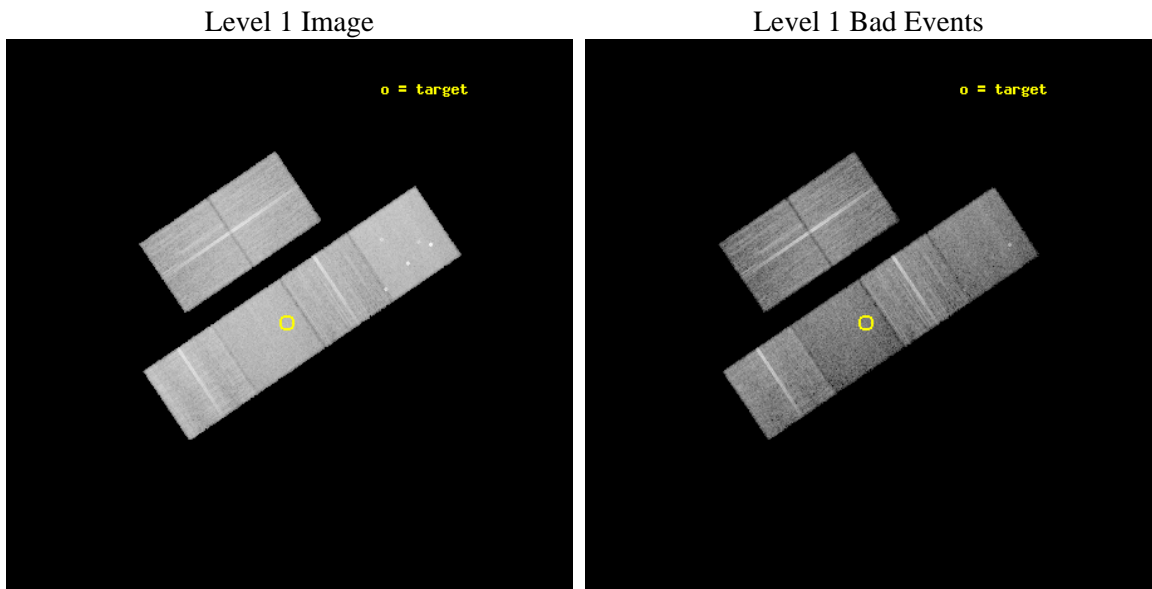
seq_num	701483	Sequence number
obs_id	7819	Observation id
title	The Chandra-RBGS Survey of a Complete Sample of Luminous Infrared Galaxies	Proposal title
observer	Professor David Sanders	Principal investigator
object	IRAS 21101+5810	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	317.876667	Observer's specified target RA [deg]
dec_targ	58.384222	Observer's specified target Dec [deg]
ra_nom	317.86748258064	Nominal RA [deg]
dec_nom	58.384440734198	Nominal Dec [deg]
roll_nom	145.97705265288	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15039.394072831	Sum of GTIs [s]
livetime	14848.956209445	Livetime [s]
ontime2	15039.435112834	Sum of GTIs [s]
ontime3	15039.270952821	Sum of GTIs [s]
ontime5	15039.353032827	Sum of GTIs [s]
ontime6	15039.311992824	Sum of GTIs [s]
ontime7	15039.394072831	Sum of GTIs [s]
ontime8	15039.229912817	Sum of GTIs [s]
l2events	178433	Number of level 2 events



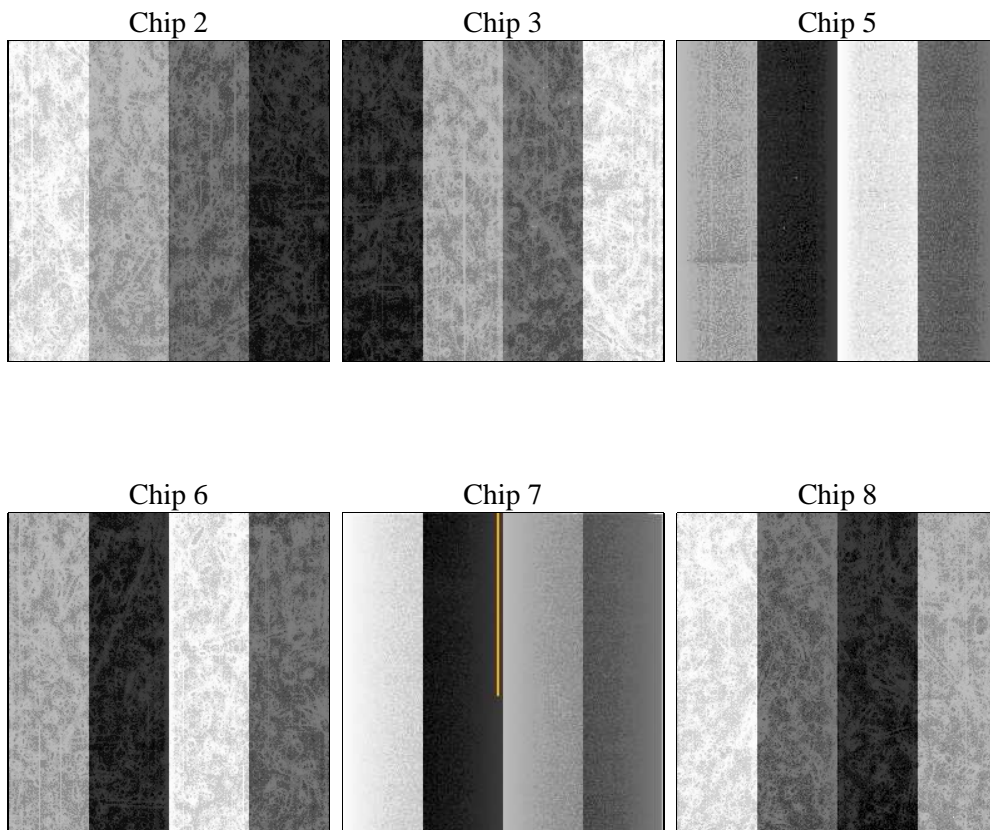
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15039.394072831	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	15039.435112834	Sum of GTIs [s]
date	2012-04-27T13:24:22	Date and time of file creation	ontime3	15039.270952821	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15039.353032827	Sum of GTIs [s]
			ontime6	15039.311992824	Sum of GTIs [s]
			ontime7	15039.394072831	Sum of GTIs [s]
			ontime8	15039.229912817	Sum of GTIs [s]
			l1events	814719	Number of level 1 events

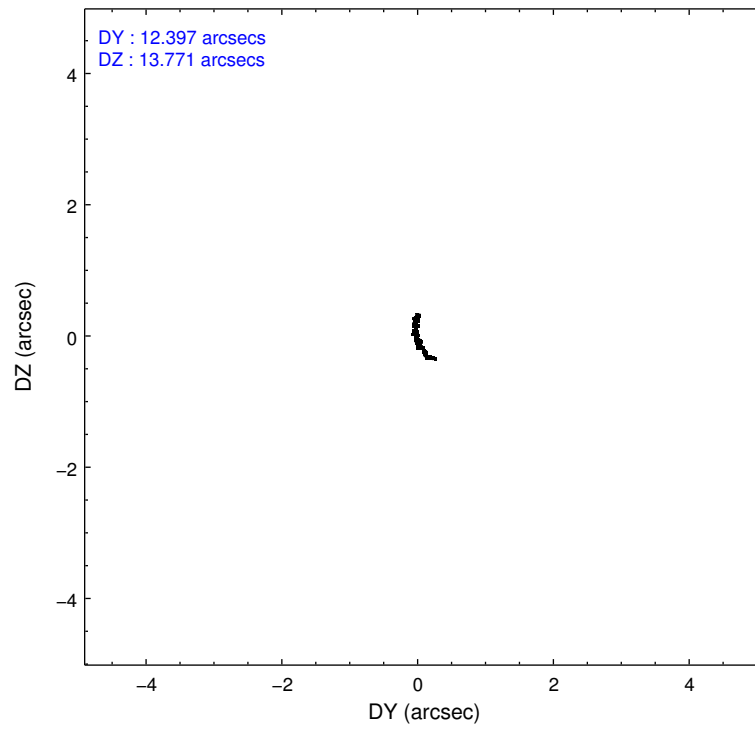
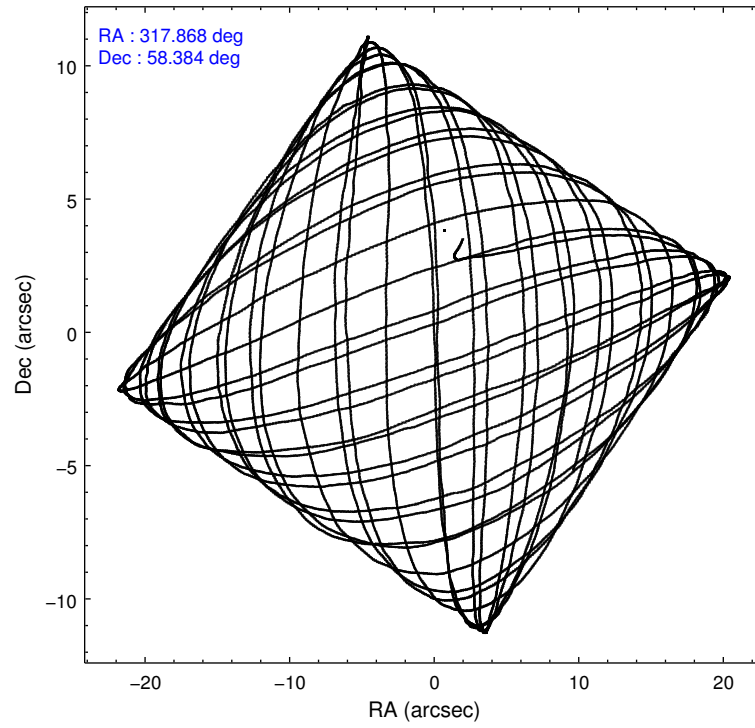
### 2.1.4 Events

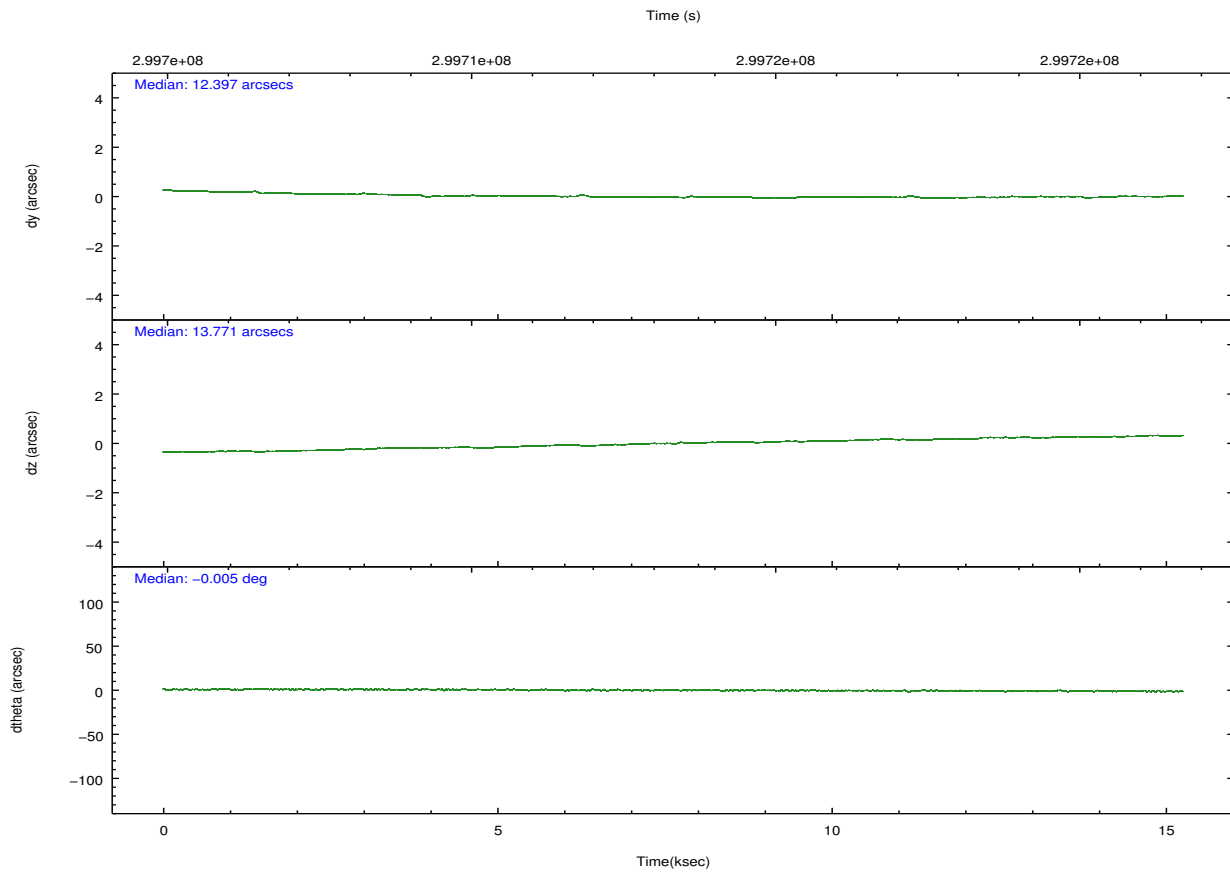
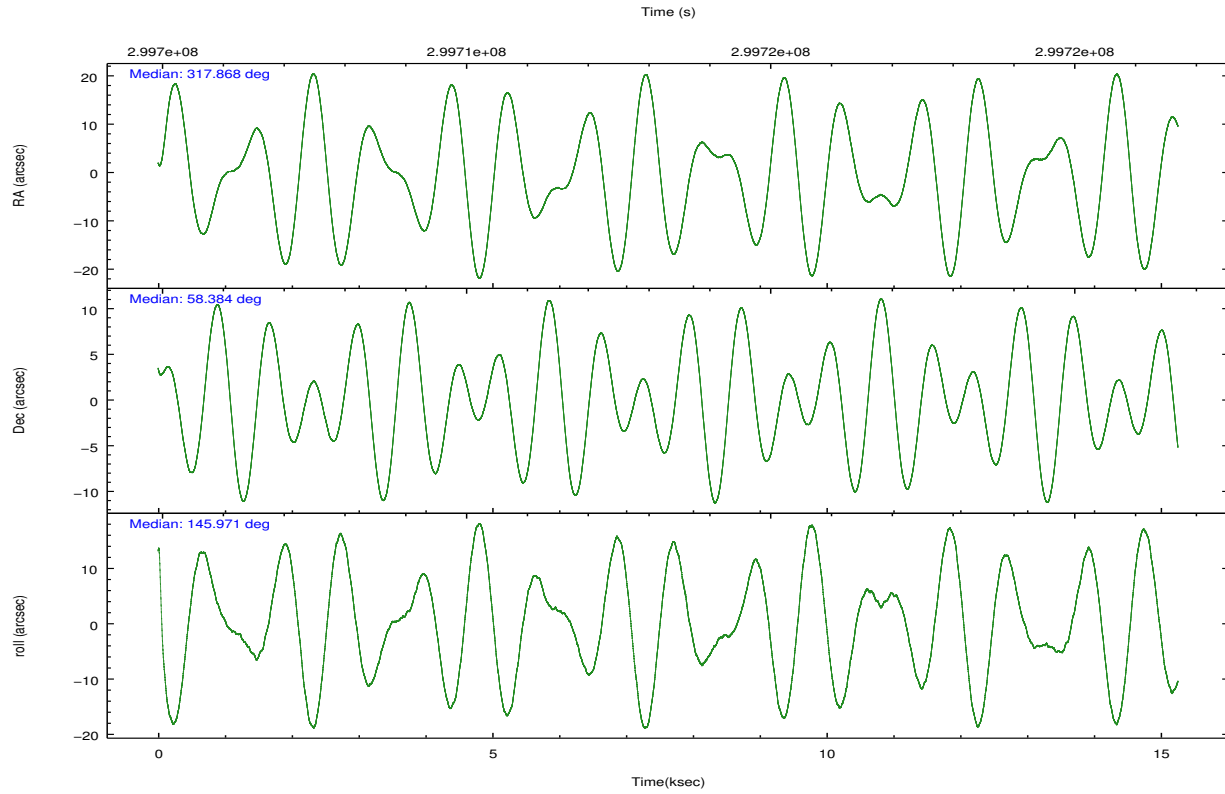
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	127422	116662	165906	122974	132535	149220	grade 0 events	4182	3832	8853	4215	5486	10896
rejected events	115773	105628	83254	110872	72241	111923		3%	3%	5%	3%	4%	7%
rejected %	90%	90%	50%	90%	54%	75%	grade 1 events	83	71	649	61	150	117
								0%	0%	0%	0%	0%	0%
							grade 2 events	2732	2342	24165	2673	12172	8623
								2%	2%	14%	2%	9%	5%
							grade 3 events	1285	1361	3371	1371	5455	3944
								1%	1%	2%	1%	4%	2%
							grade 4 events	1278	1249	3380	1271	5542	3627
								1%	1%	2%	1%	4%	2%
							grade 5 events	3917	4624	12850	4765	14058	6958
								3%	3%	7%	3%	10%	4%
							grade 6 events	2176	2256	42918	2577	31661	10218
								1%	1%	25%	2%	23%	6%
							grade 7 events	111769	100927	69720	106041	58011	104837
								87%	86%	42%	86%	43%	70%

## 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	317.919496	317.8674825806433	CCD I2 on	O1	Y
[deg] Pointing Dec	58.382862	58.38444073419829	CCD I3 on	O2	Y
[deg] Pointing Roll	145.776118	145.977052652883	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	299705943.184000	299704900.54066	CCD S5 on	N	N
Observation start date	2007-07-01T19:37:58	2007-07-01T19:21:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	299720943.184000	299721482.47895	On-chip summing requested	N	N
Observation end date	2007-07-01T23:47:58	2007-07-01T23:58:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





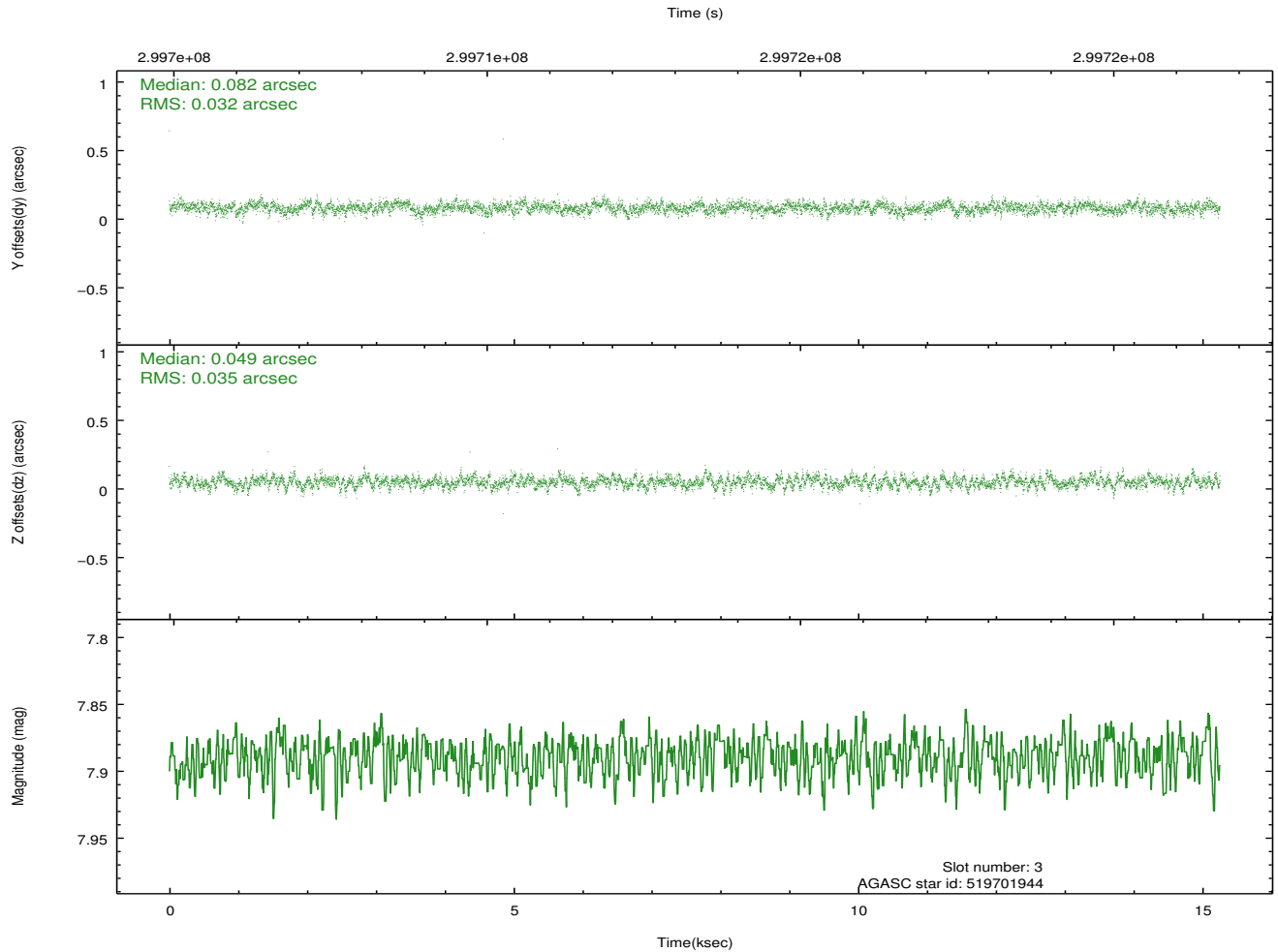
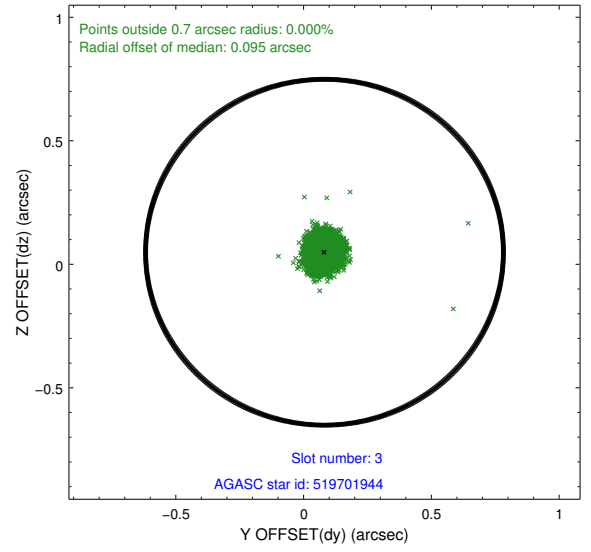
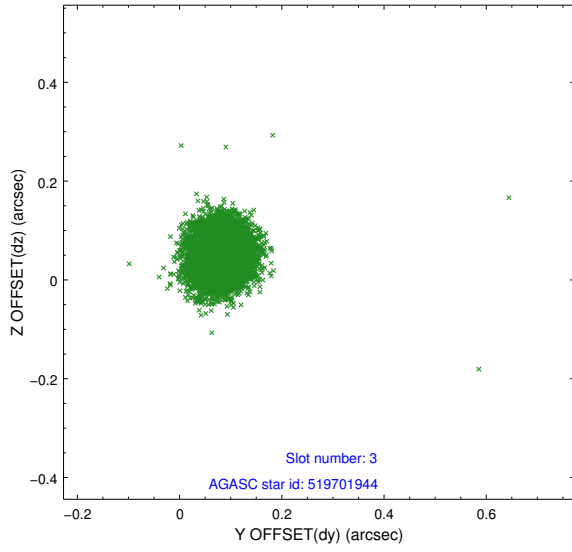
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	3721	0.060	-0.023	0.011	0.017	0.000000	0.000000	930.75	-1730.77
1	FID	ACIS-S-4	7.19	3721	0.104	-0.008	0.007	0.011	0.000000	0.000000	2148.38	173.09
2	FID	ACIS-S-5	7.23	3722	-0.191	0.044	0.009	0.016	0.000000	0.000000	-1817.98	167.10
3	GUIDE	519701944	7.89	7443	0.082	0.049	0.049	0.079	318.331017	58.637312	-120.58	-1192.64
4	GUIDE	519704440	8.77	7441	-0.130	-0.021	0.072	0.116	316.861042	58.250969	1399.54	1507.55
5	GUIDE	519178160	8.93	7436	0.003	-0.197	0.088	0.140	317.499802	57.755446	-602.37	2318.99
6	GUIDE	519176352	8.12	7442	0.057	-0.051	0.056	0.089	318.272119	58.053849	-1220.58	600.41
7	GUIDE	519705240	6.73	7442	-0.009	0.218	0.050	0.084	319.328294	58.611480	-1705.31	-2188.56

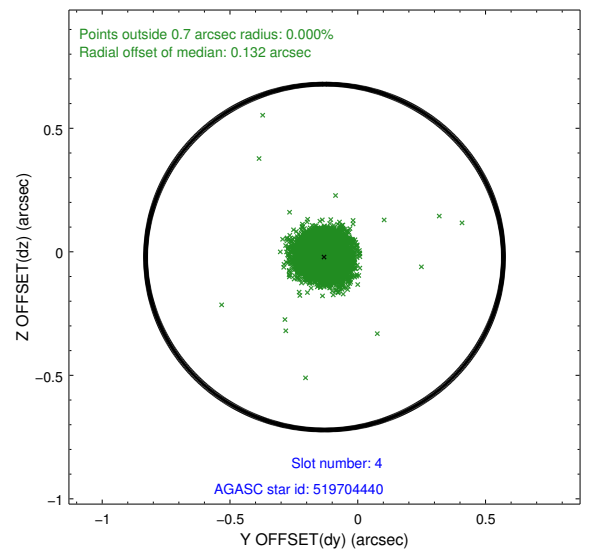
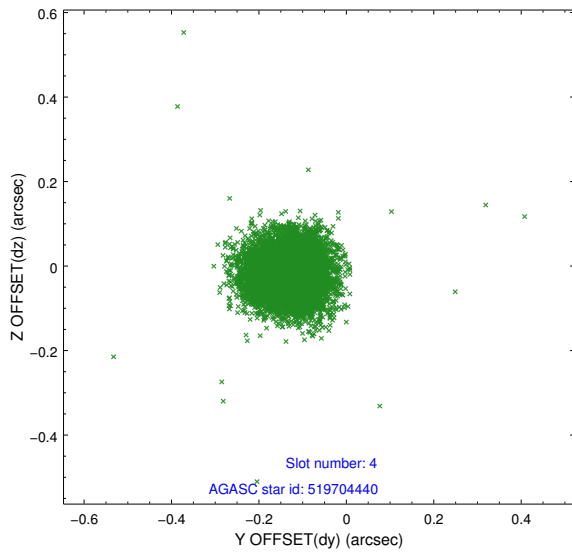
∞

## 2.4 Star Slots

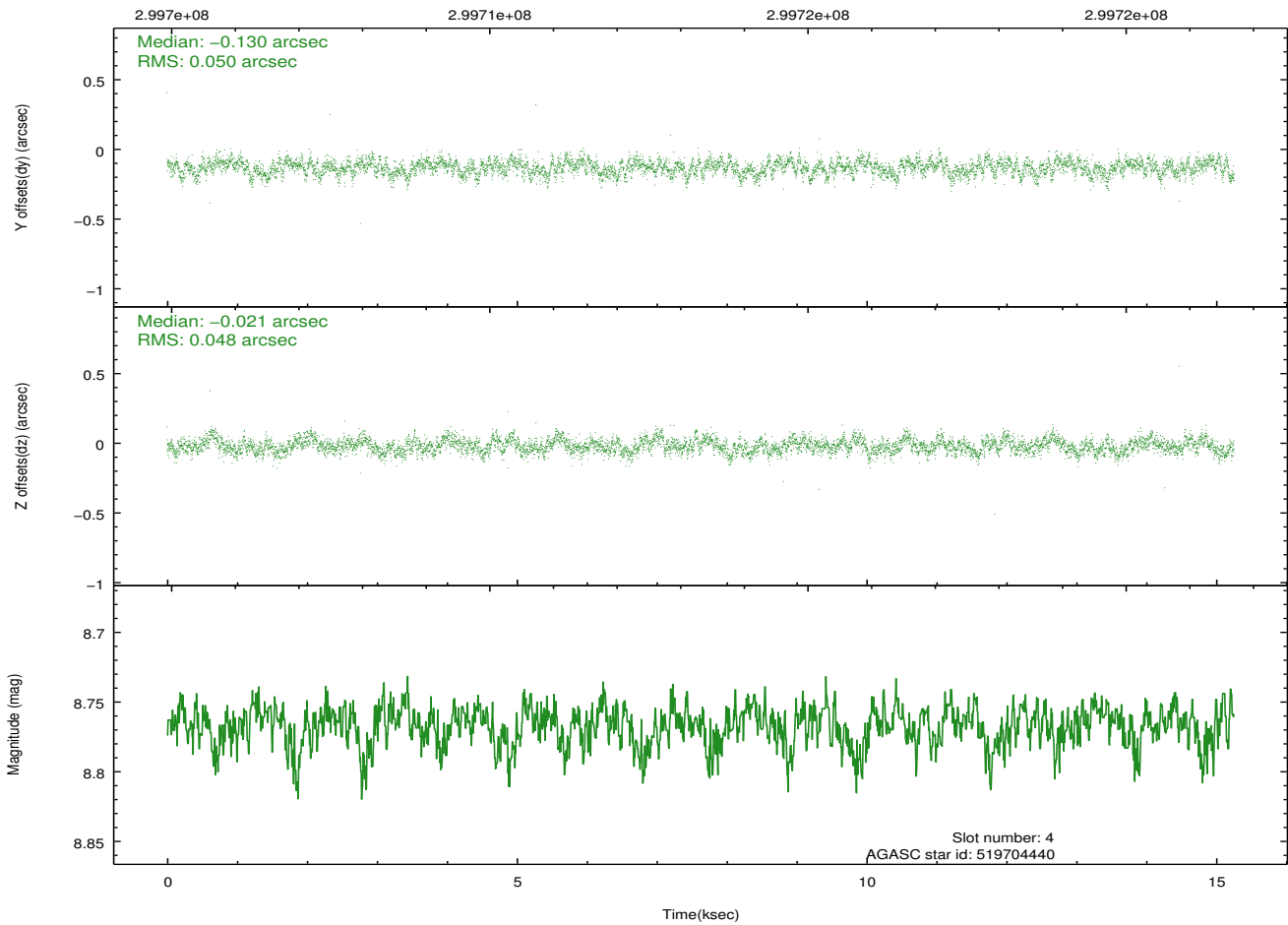
### 2.4.1 Slot 3



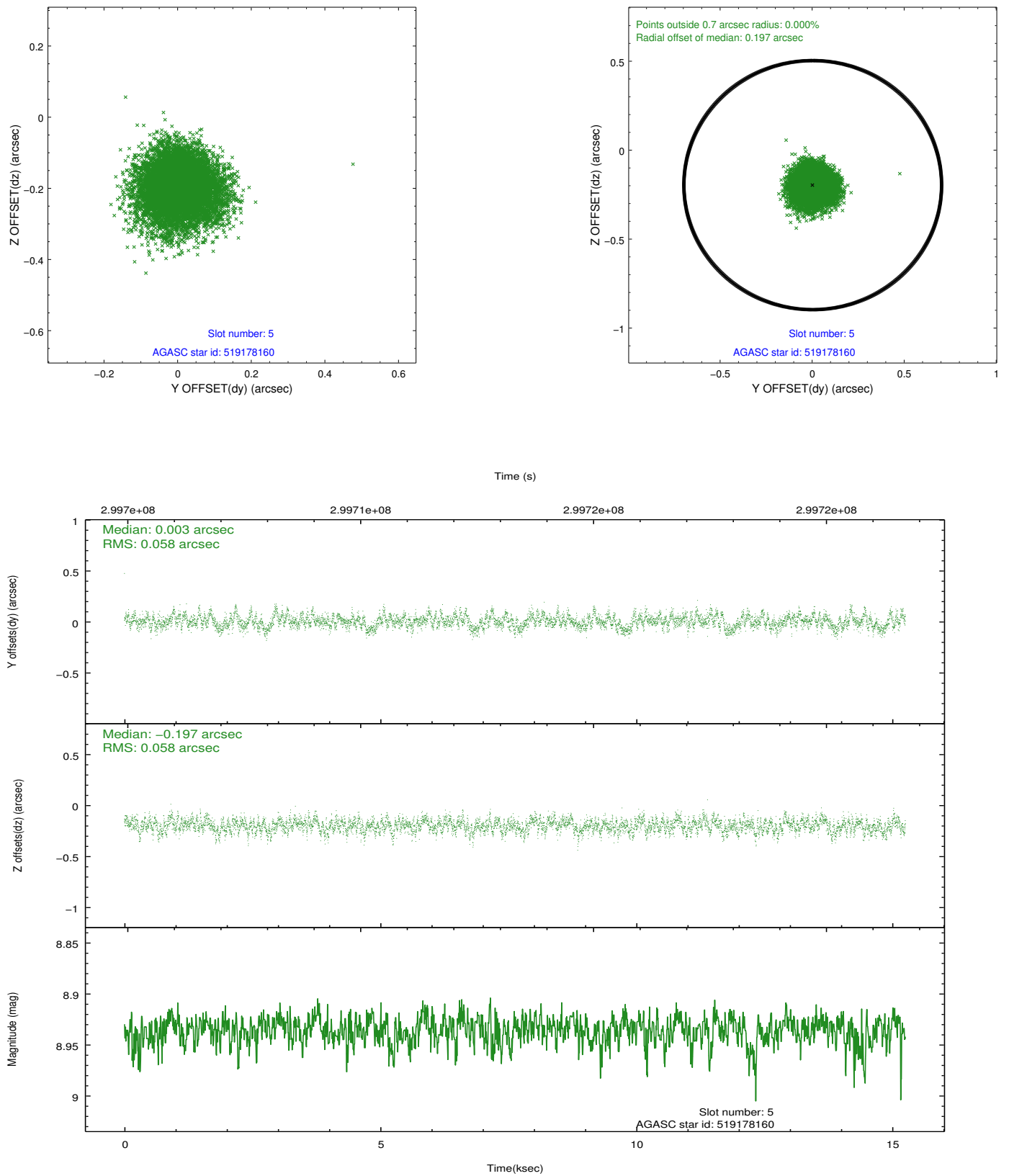
## 2.4.2 Slot 4



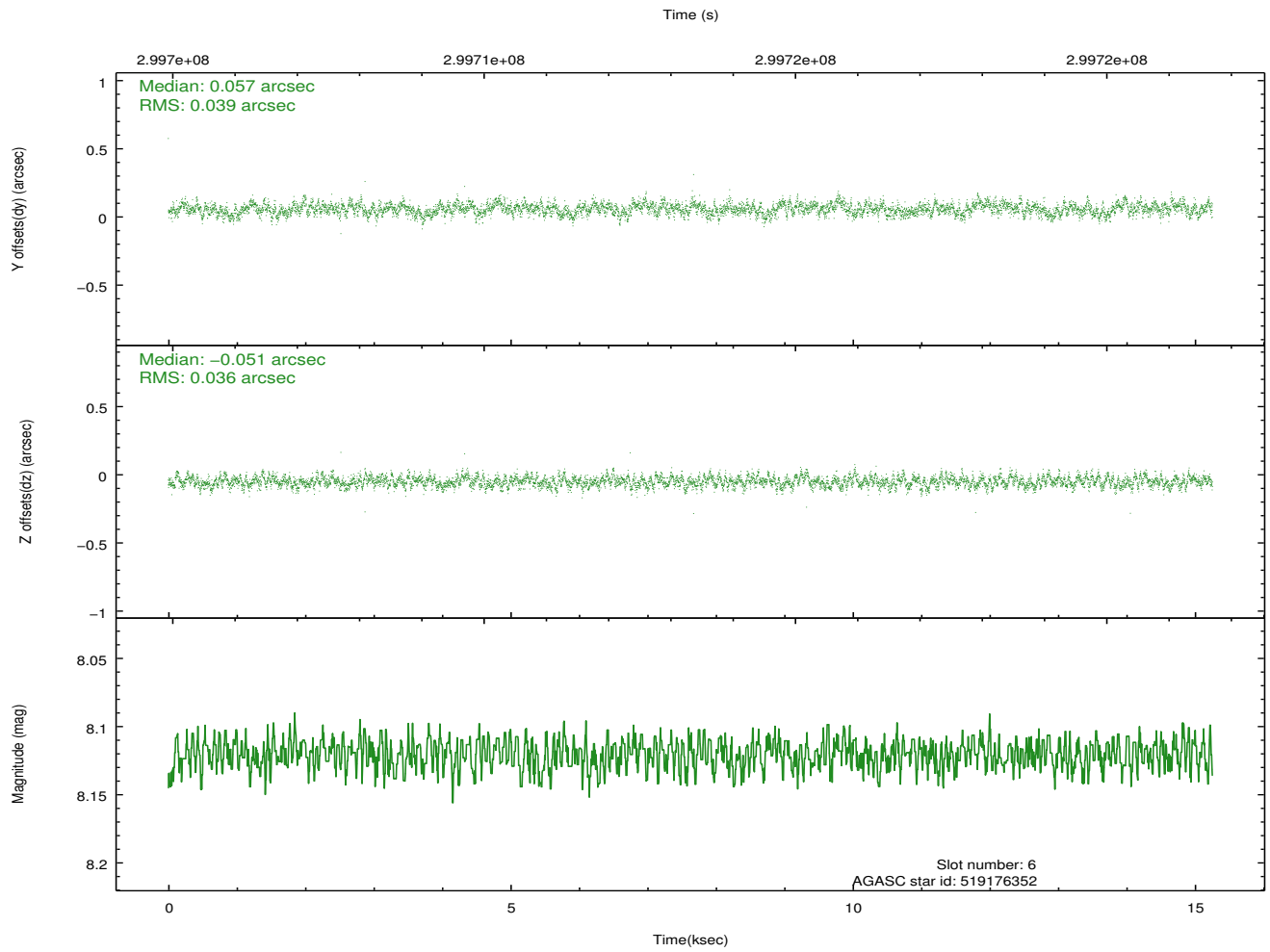
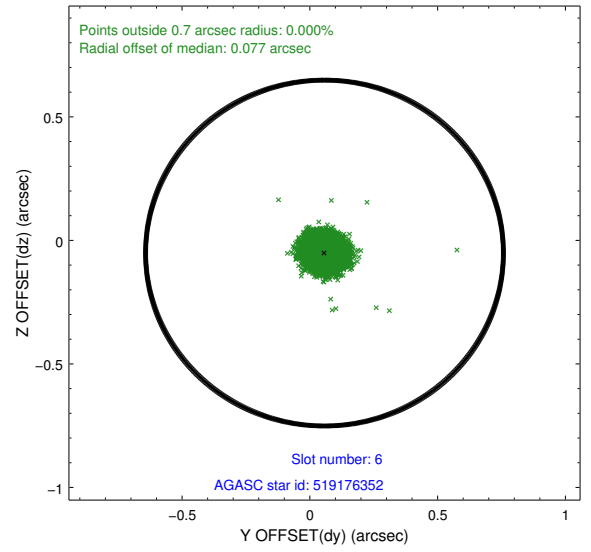
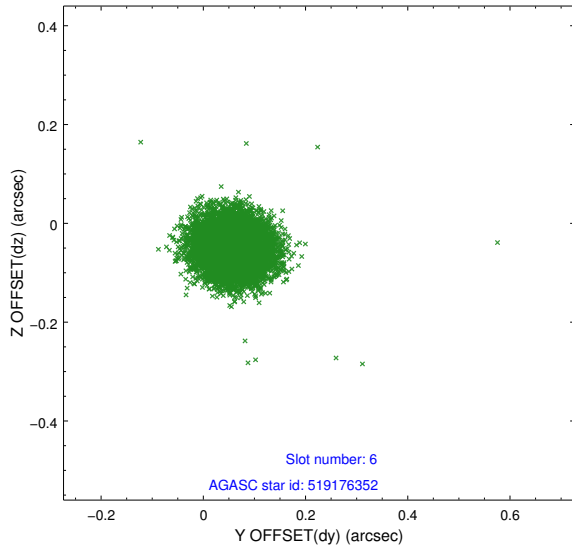
Time (s)



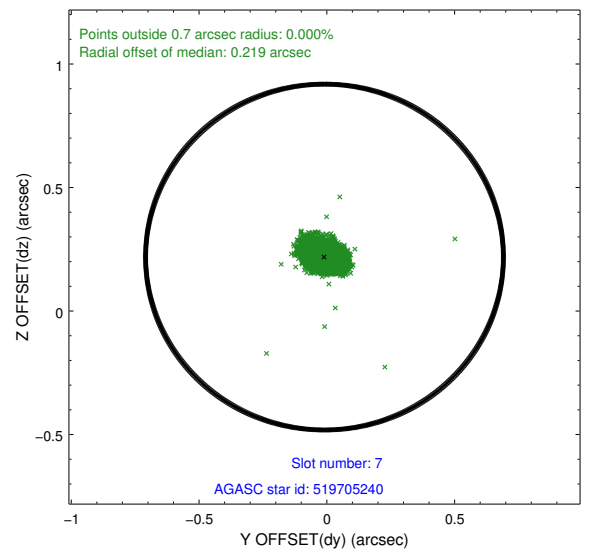
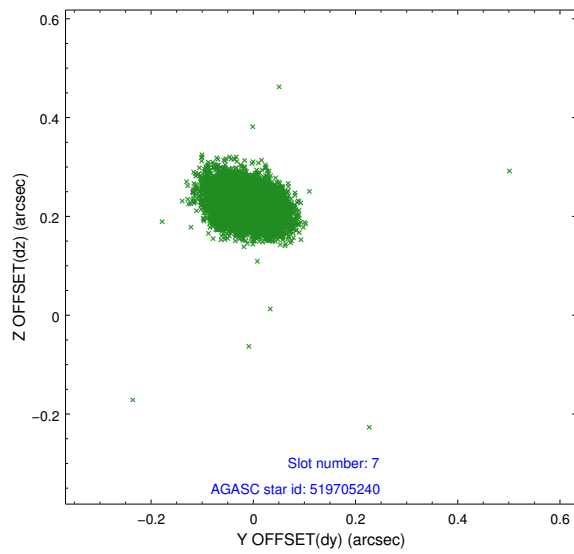
### 2.4.3 Slot 5



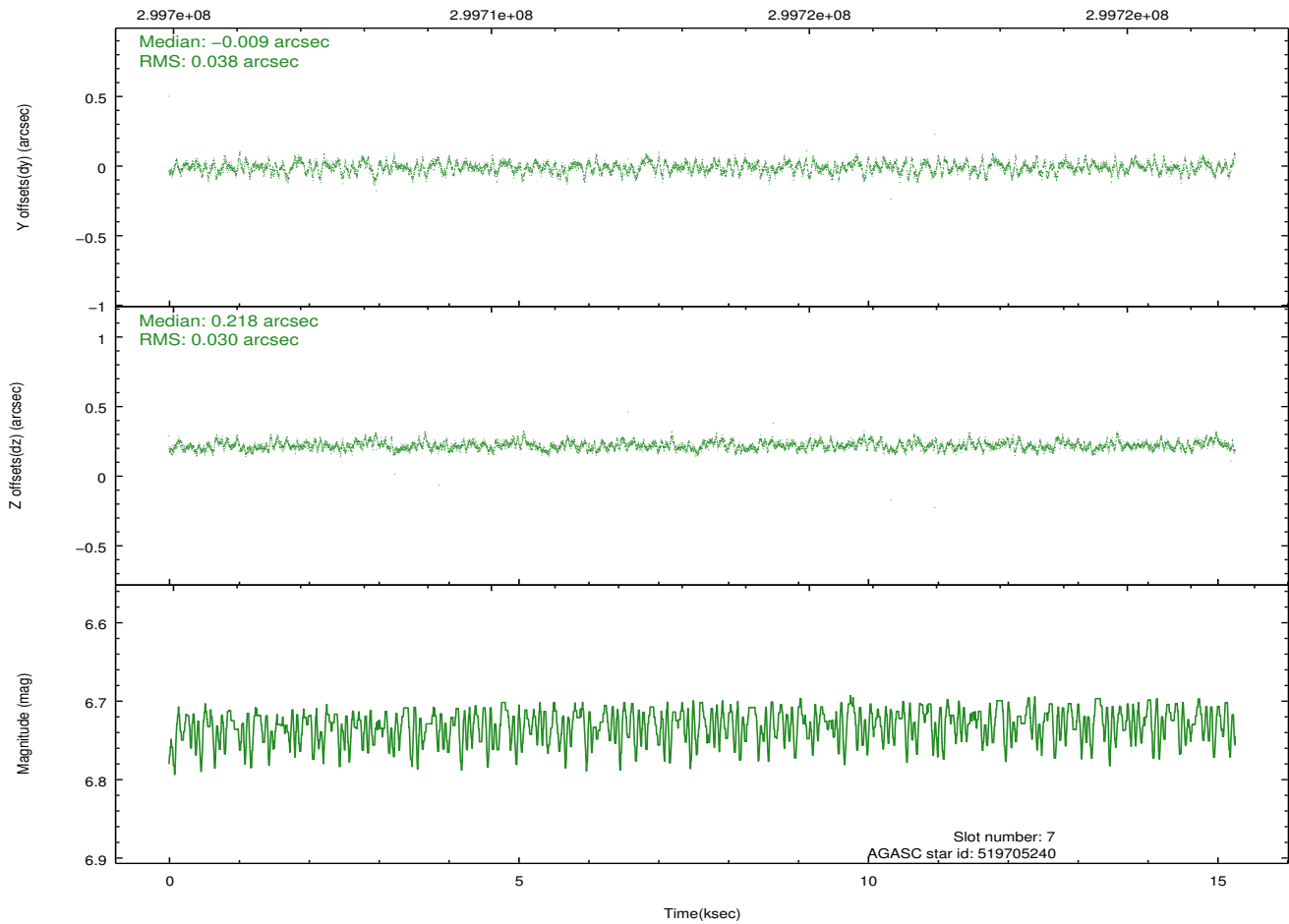
### 2.4.4 Slot 6



## 2.4.5 Slot 7

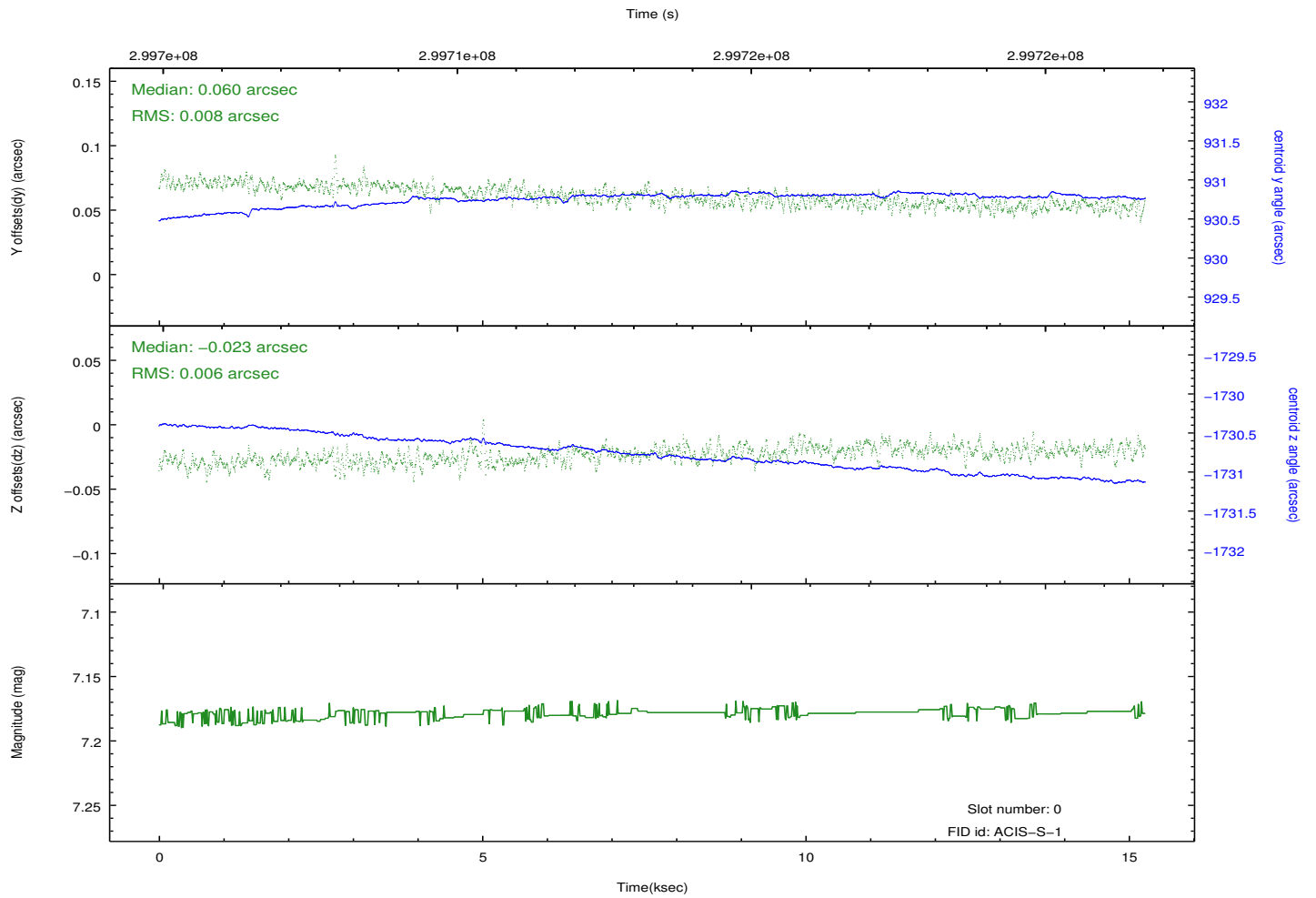
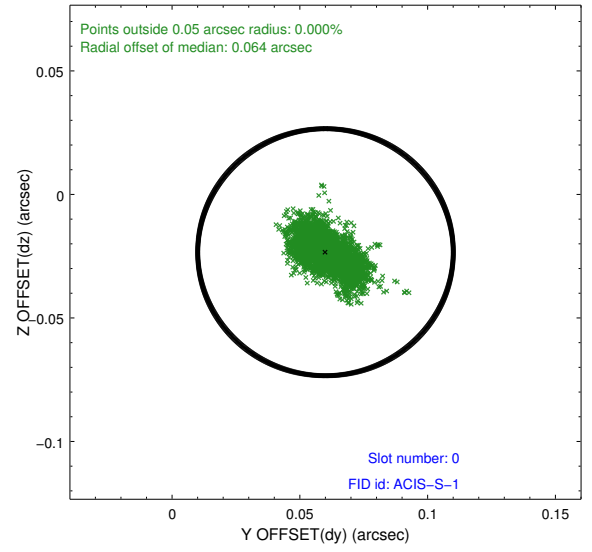
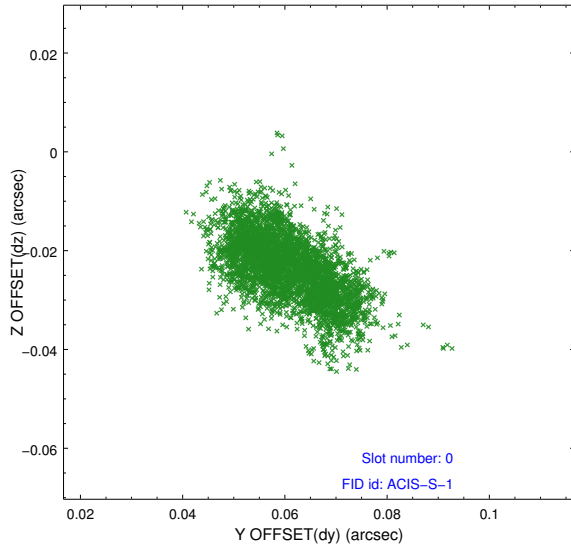


Time (s)

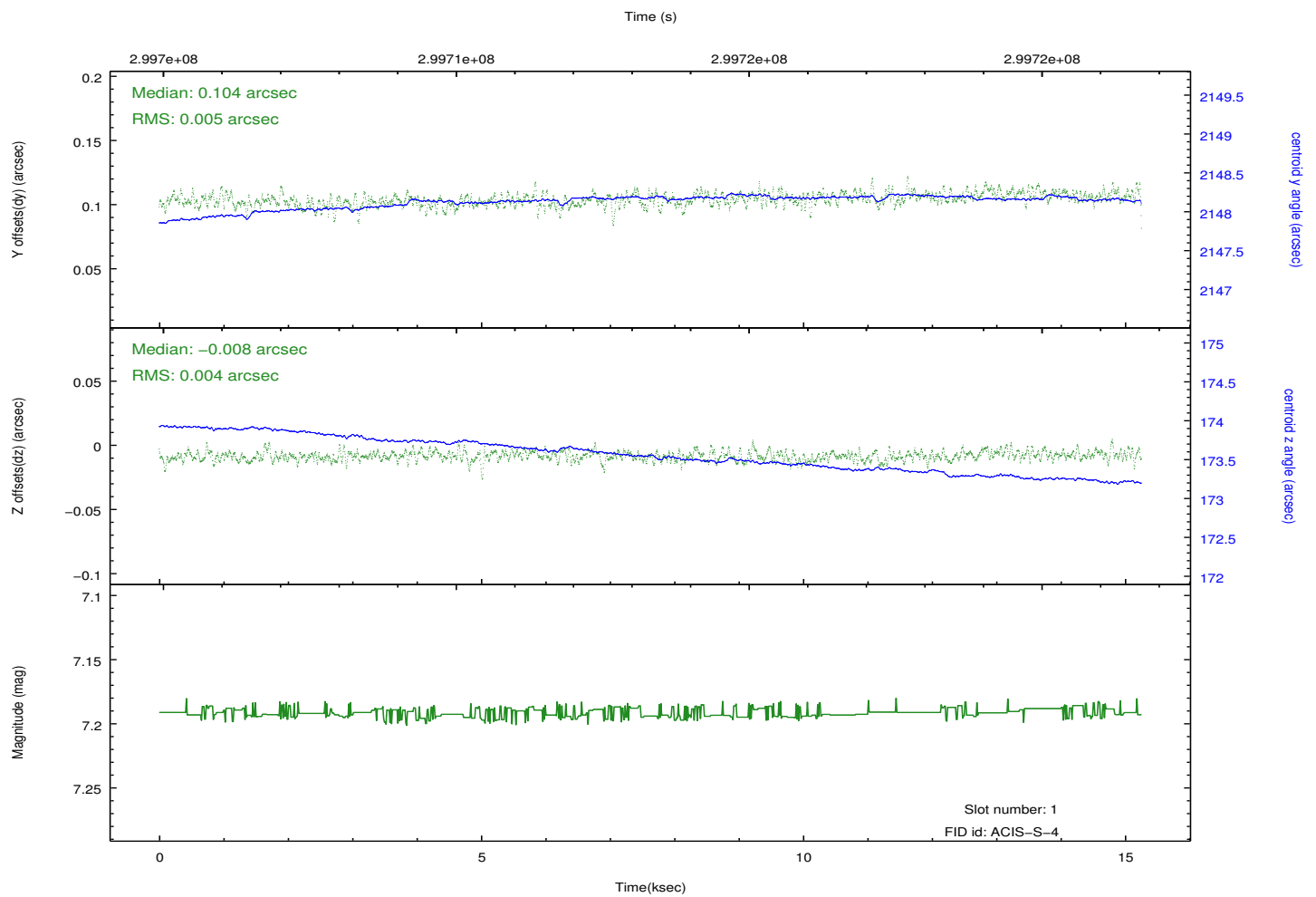
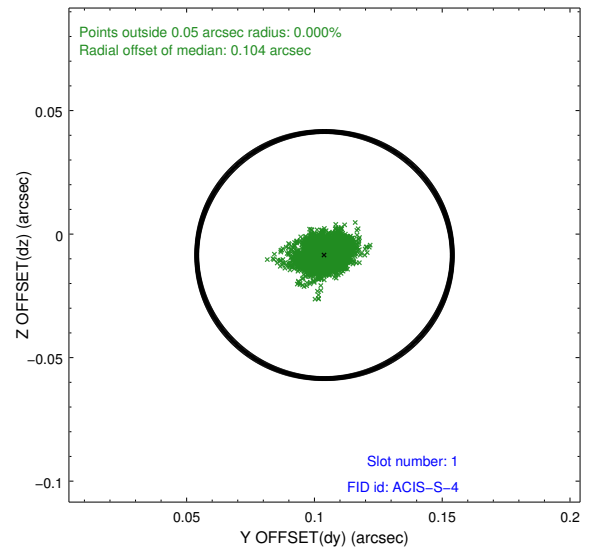
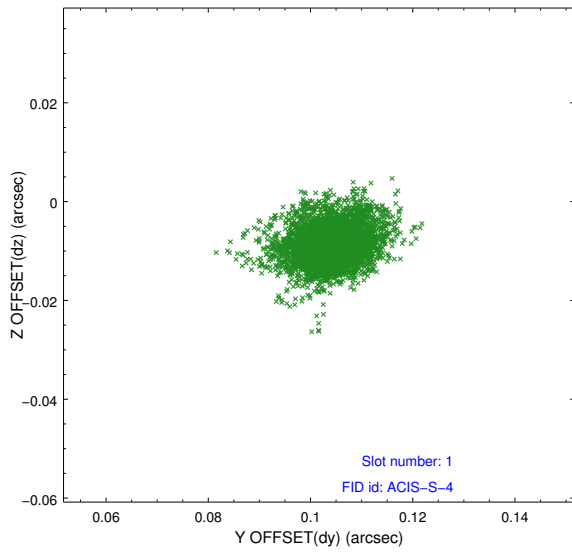


## 2.5 FID Slots

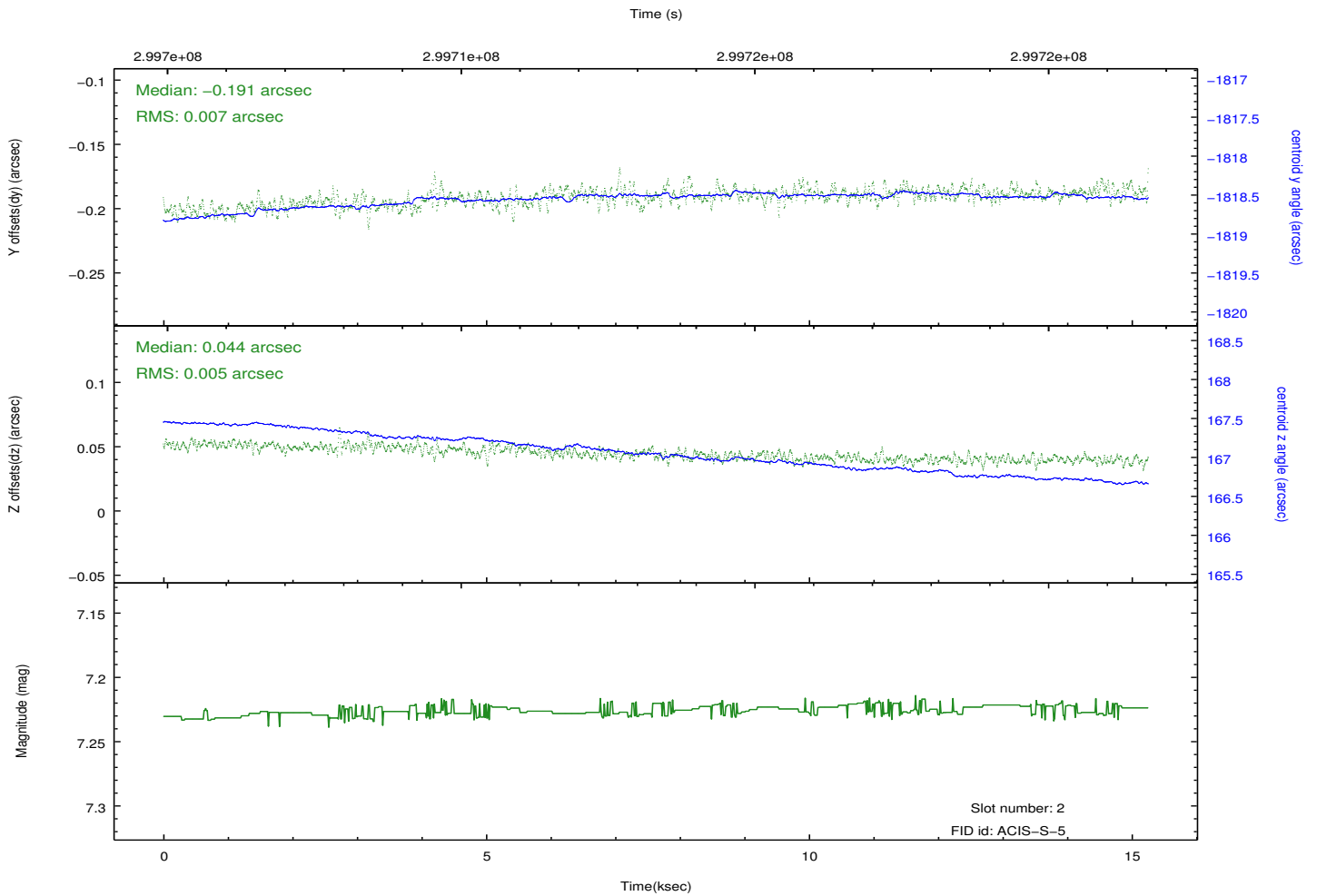
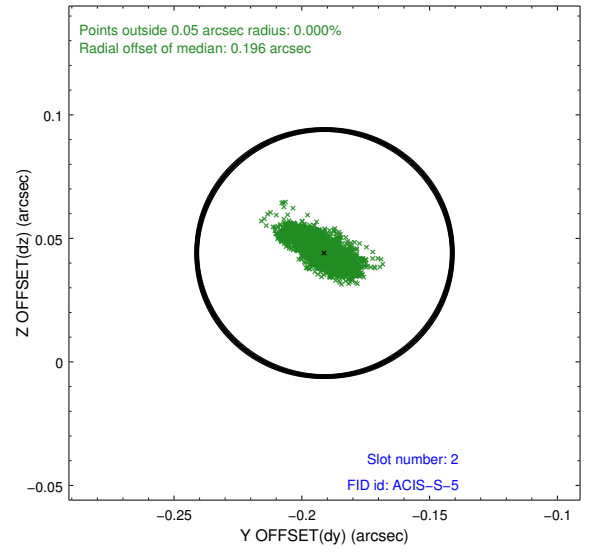
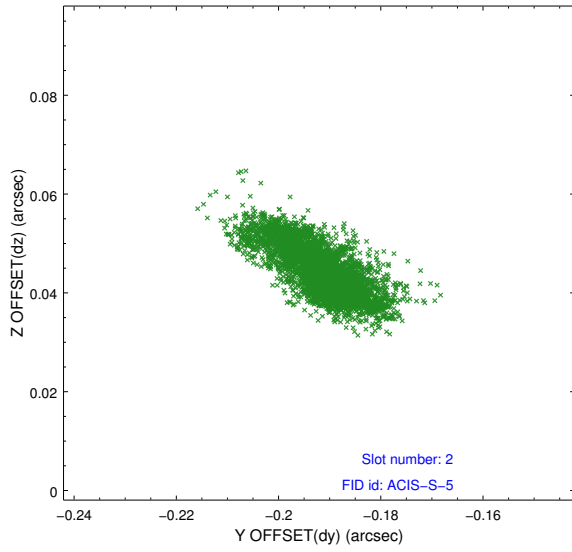
### 2.5.1 Slot 0



## 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)	2012.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.0399999

## A.2 Comments