

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4368 - L2 Version 3  
Chandra X-Ray Center

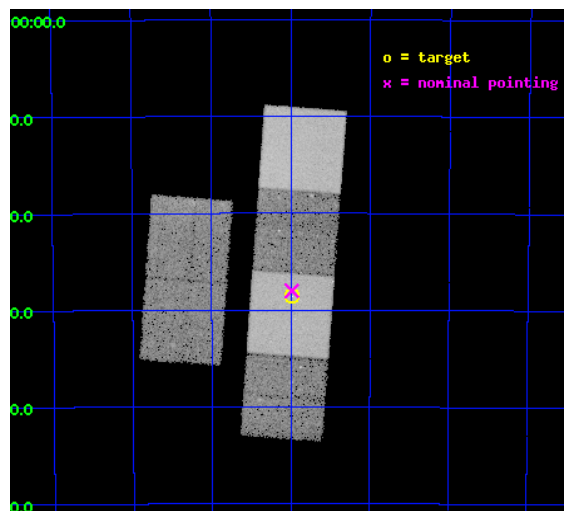
L2 Processing Date : Oct 21 2012

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# 1 Front

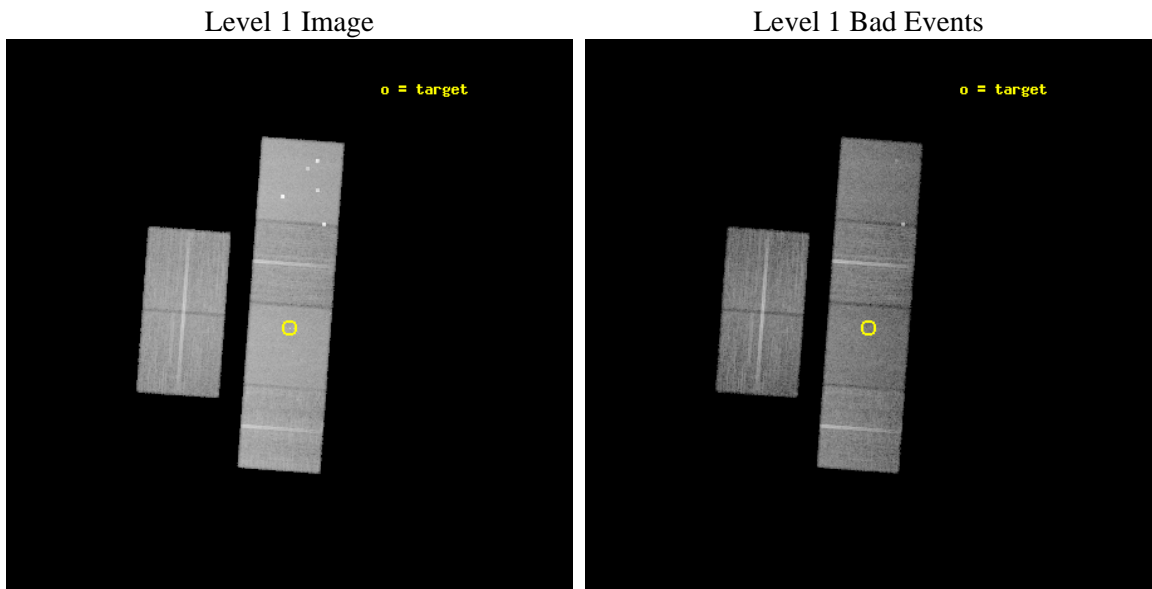
seq_num	400294	Sequence number
obs_id	4368	Observation id
title	JET INTERACTIONS AROUND THE BLACK HOLE XTE J1550-564	Proposal titl
observer	Prof. Stephane CORBEL	Principal investigator
object	XTE J1550-564 (JET)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.744583	Observer's specified target RA [deg]
dec_targ	-56.476556	Observer's specified target Dec [deg]
ra_nom	237.74635364823	Nominal RA [deg]
dec_nom	-56.466930791919	Nominal Dec [deg]
roll_nom	94.244327846852	Nominal Roll [deg]
revision	3	Processing version of data
ontime	23983.999910653	Sum of GTIs [s]
livetime	23680.300062353	Livetime [s]
ontime2	23983.999910653	Sum of GTIs [s]
ontime3	23983.999910653	Sum of GTIs [s]
ontime5	23983.999910653	Sum of GTIs [s]
ontime6	23983.999910653	Sum of GTIs [s]
ontime7	23983.999910653	Sum of GTIs [s]
ontime8	23980.758960307	Sum of GTIs [s]
l2events	248772	Number of level 2 events



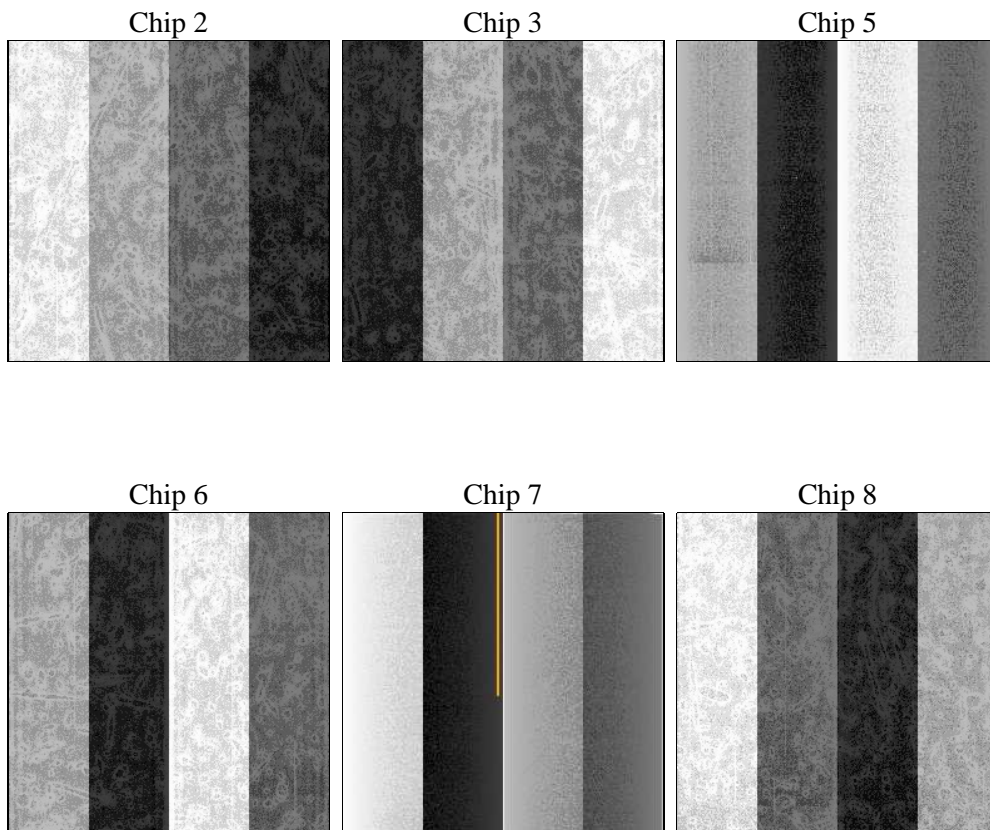
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24225.921000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	23983.999910653	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	23983.999910653	Sum of GTIs [s]
date	2012-10-21T06:02:23	Date and time of file creation	ontime3	23983.999910653	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	23983.999910653	Sum of GTIs [s]
			ontime6	23983.999910653	Sum of GTIs [s]
			ontime7	23983.999910653	Sum of GTIs [s]
			ontime8	23980.758960307	Sum of GTIs [s]
			l1events	1059641	Number of level 1 events

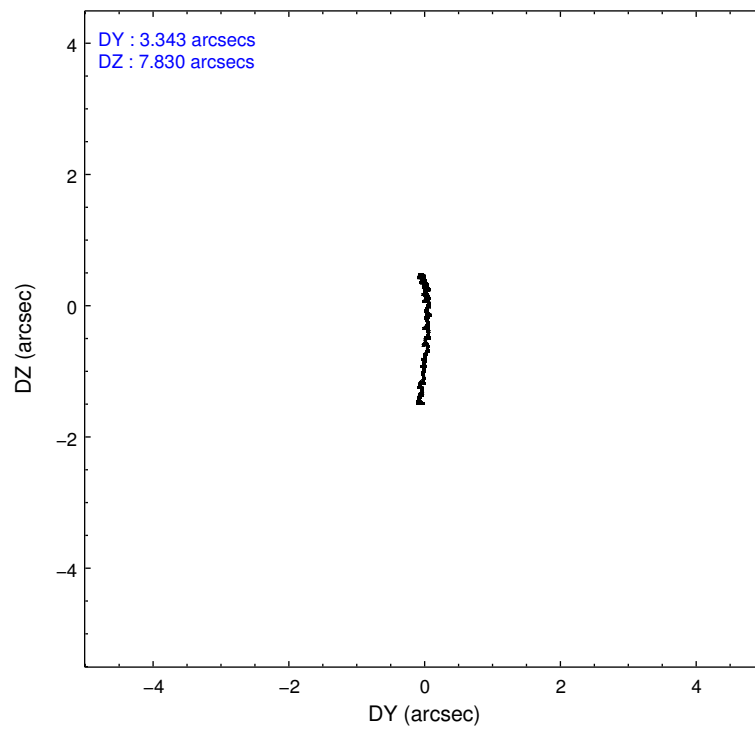
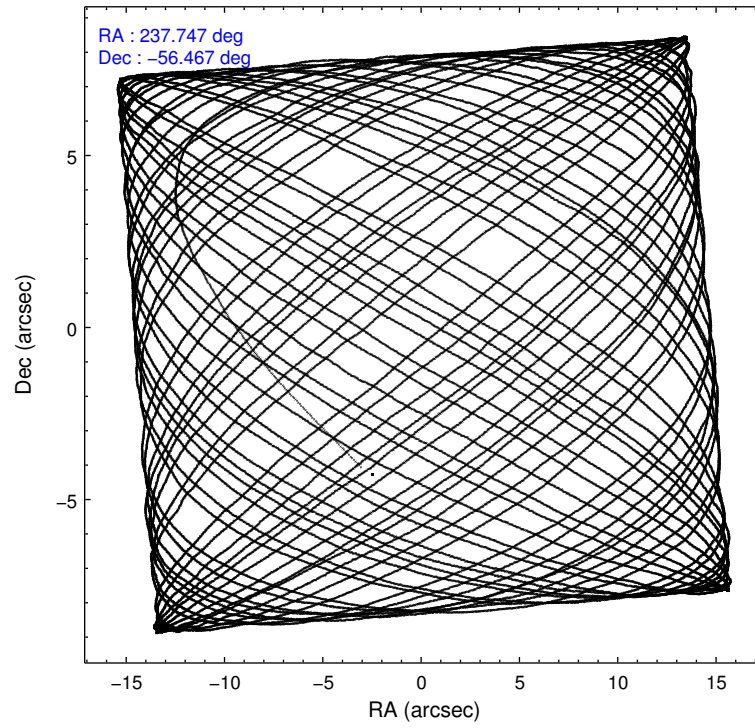
### 2.1.4 Events

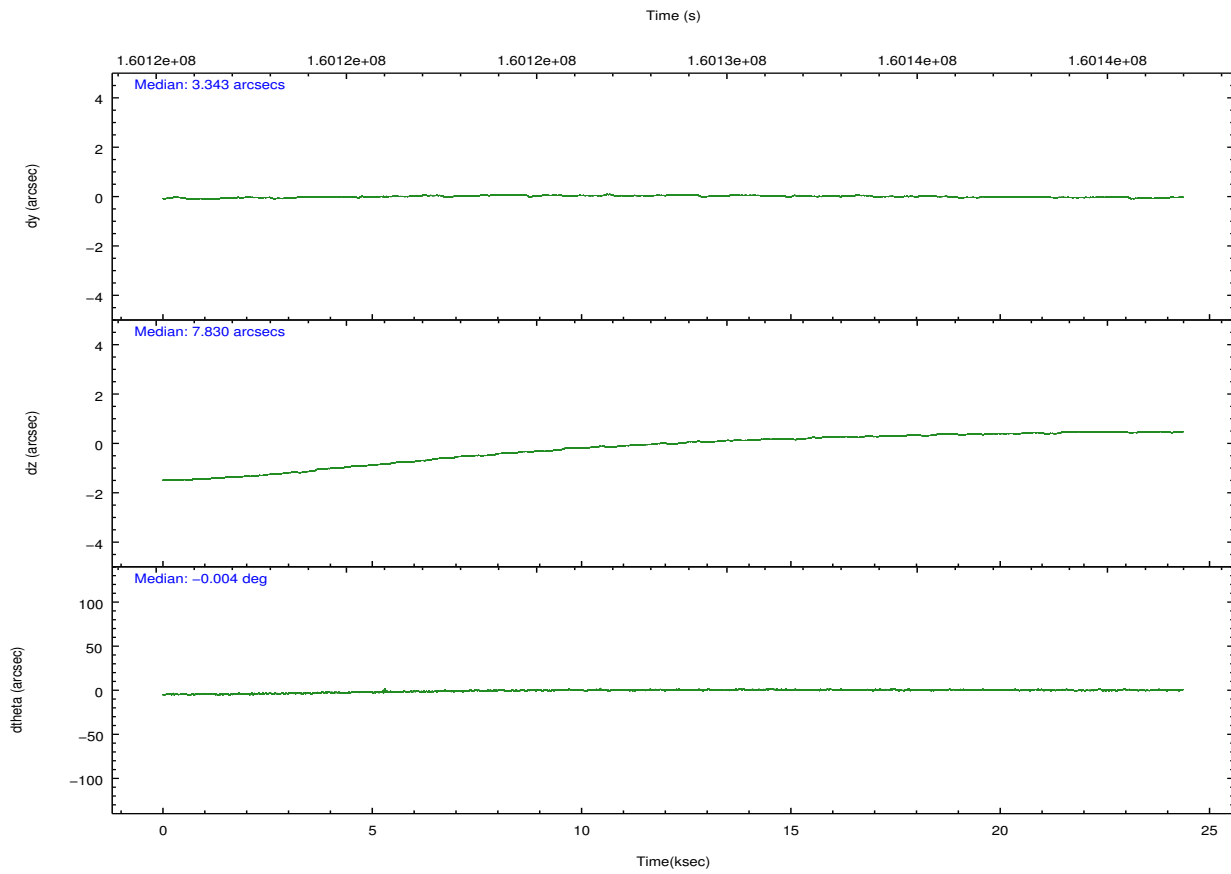
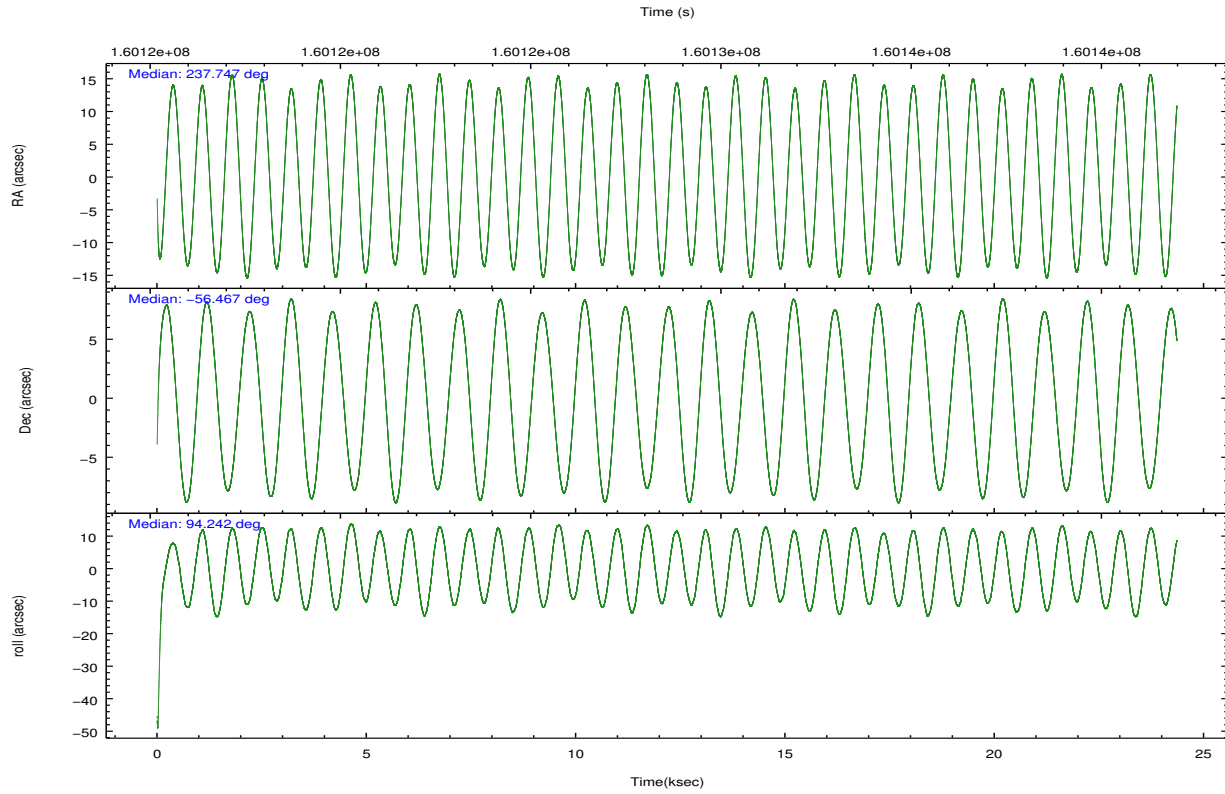
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	153433	141228	233422	150494	196331	184733	grade 0 events	12256	8746	23243	8575	8210	12788
rejected events	130941	123186	116357	131496	113171	146242		7%	6%	9%	5%	4%	6%
rejected %	85%	87%	49%	87%	57%	79%	grade 1 events	100	83	1010	71	136	147
								0%	0%	0%	0%	0%	0%
							grade 2 events	3835	3110	32589	3532	16642	8073
								2%	2%	13%	2%	8%	4%
							grade 3 events	1785	1653	4918	1689	7460	3980
								1%	1%	2%	1%	3%	2%
							grade 4 events	1764	1624	4533	1729	7350	3736
								1%	1%	1%	1%	3%	2%
							grade 5 events	5659	6111	15767	6567	18311	8365
								3%	4%	6%	4%	9%	4%
							grade 6 events	2855	2912	51820	3476	43505	9924
								1%	2%	22%	2%	22%	5%
							grade 7 events	125179	116989	99542	124855	94717	137720
								81%	82%	42%	82%	48%	74%

## 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	237.774671	237.7463536482302	Subarray requested	NONE	NONE
[deg] Pointing Dec	-56.489233	-56.46693079191868	Alternating exposures requested	N	N
[deg] Pointing Roll	94.111340	94.24432784685172	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	160012864.184000	160012864.184000			
[s] Window stop time (MET)	160531264.184000	160531264.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	160116539.184000	160115510.61558			
Observation start date	2003-01-28T04:47:55	2003-01-28T04:31:50			
[s] Observation end time (MET)	160140765.184000	160141079.75416			
Observation end date	2003-01-28T11:31:41	2003-01-28T11:37:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



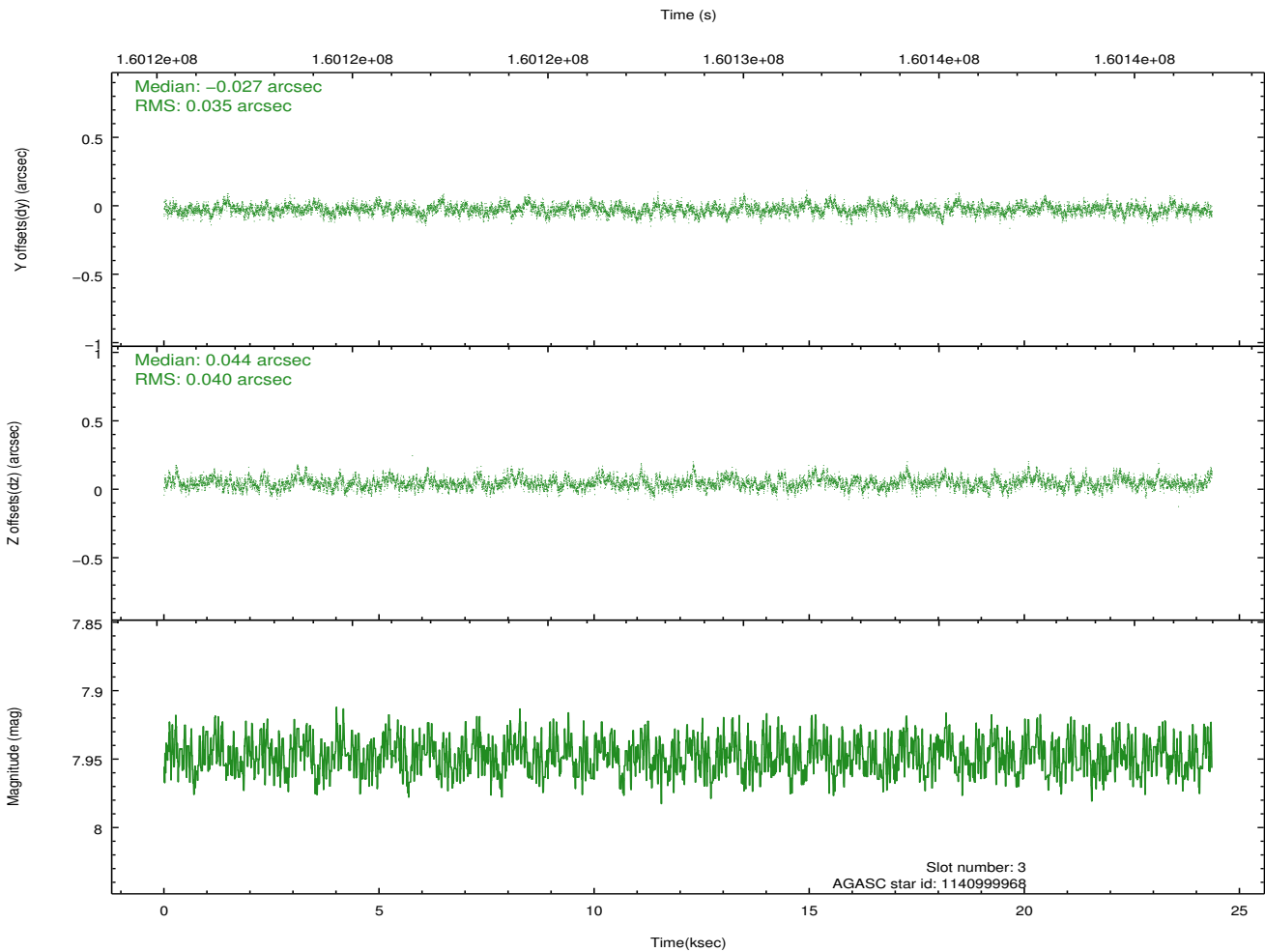
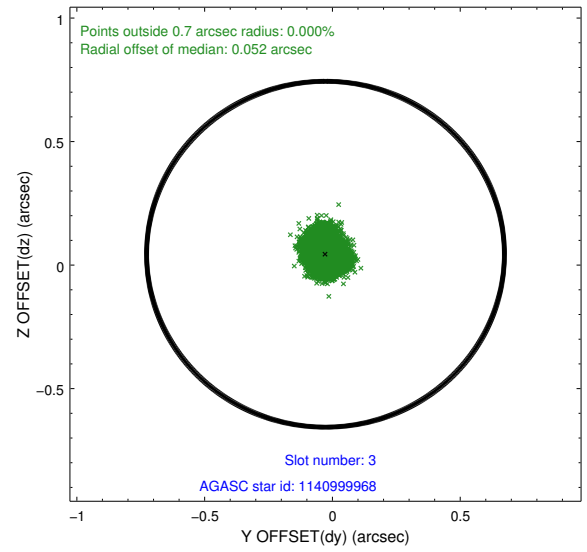
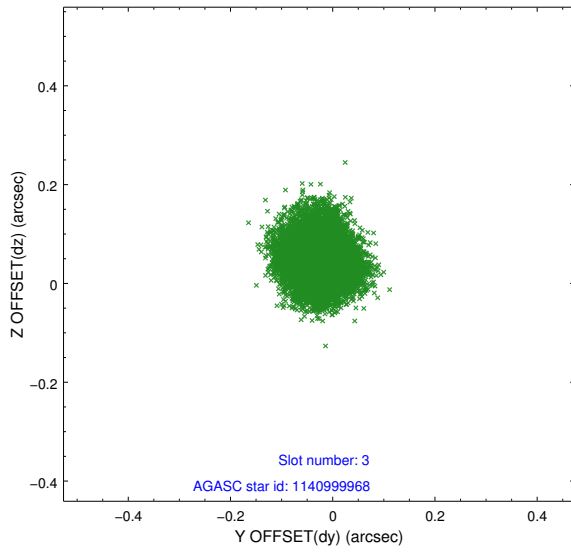


### Slot Statistics

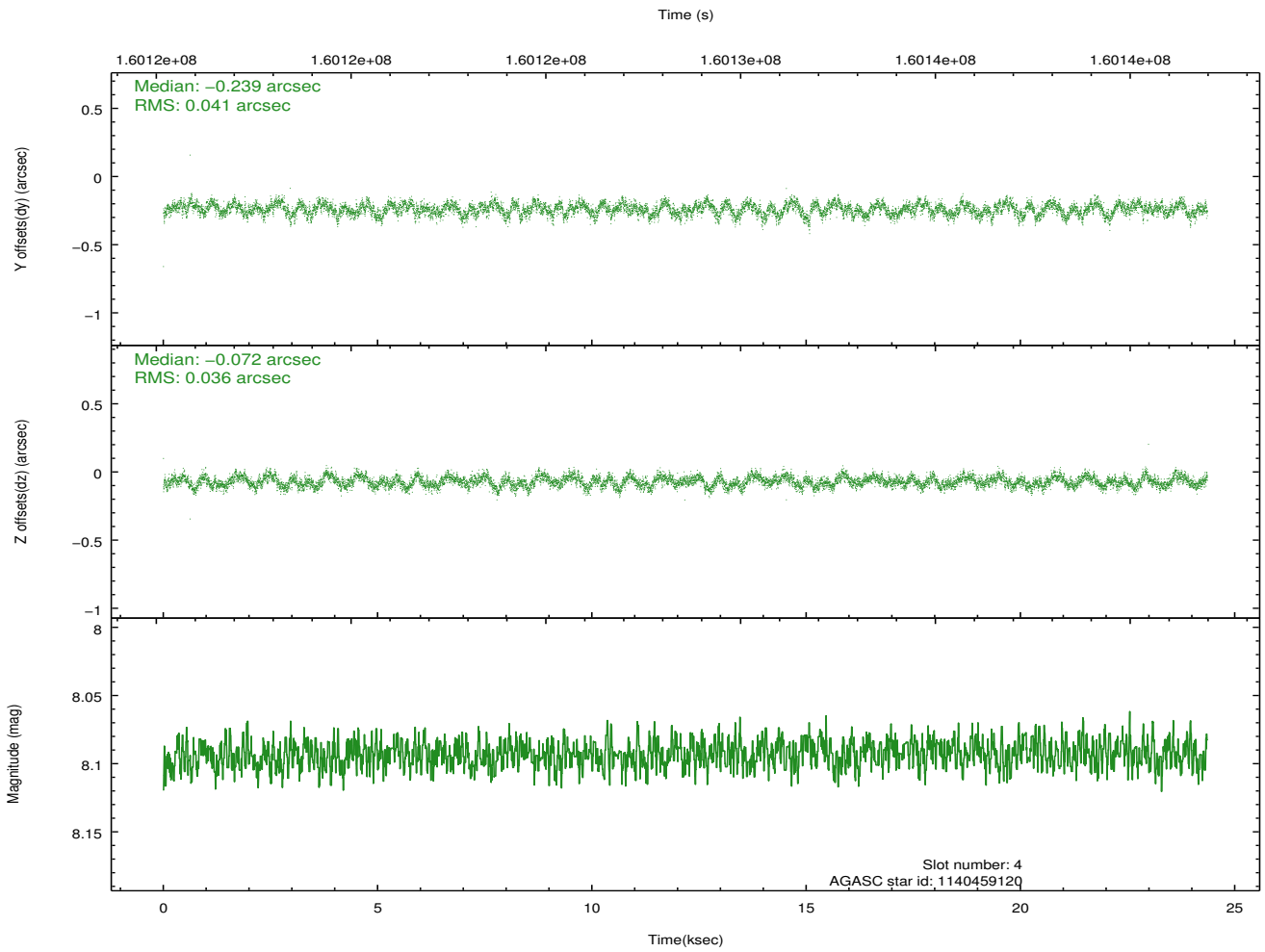
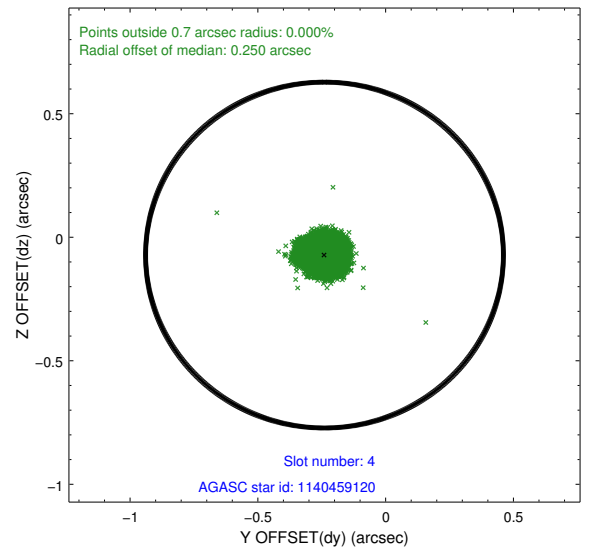
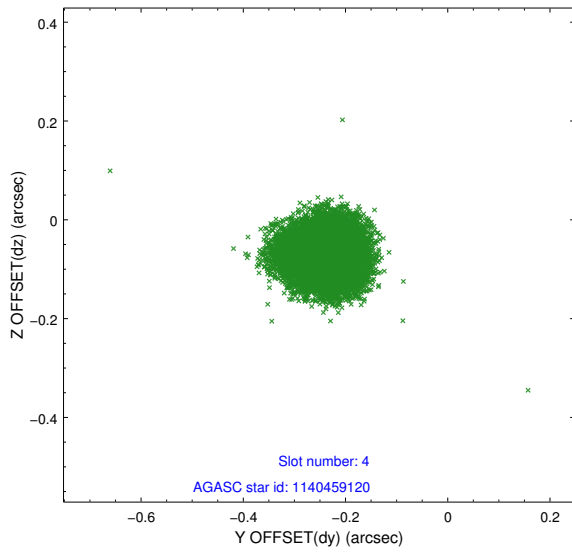
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	5942	-0.016	-0.015	0.013	0.026	0.000000	0.000000	-756.00	-1728.77
1	FID	ACIS-S-4	7.20	5942	0.017	0.012	0.007	0.015	0.000000	0.000000	2157.24	179.63
2	FID	ACIS-S-5	7.24	5942	-0.031	0.013	0.013	0.025	0.000000	0.000000	-1808.70	173.42
3	GUIDE	1140999968	7.95	11882	-0.027	0.044	0.056	0.091	238.471952	-56.275988	658.78	-1444.10
4	GUIDE	1140459120	8.09	11884	-0.239	-0.072	0.059	0.091	236.924254	-55.881913	2293.14	1557.06
5	GUIDE	1140464712	8.83	11817	-0.168	-0.151	0.064	0.104	237.089614	-55.992926	1874.26	1248.62
6	GUIDE	1140989920	8.88	11880	0.296	-0.008	0.060	0.100	237.647305	-57.151120	-2358.57	419.27
7	GUIDE	1140998784	9.17	11875	0.138	0.183	0.084	0.142	238.683224	-56.839204	-1396.65	-1692.84

## 2.4 Star Slots

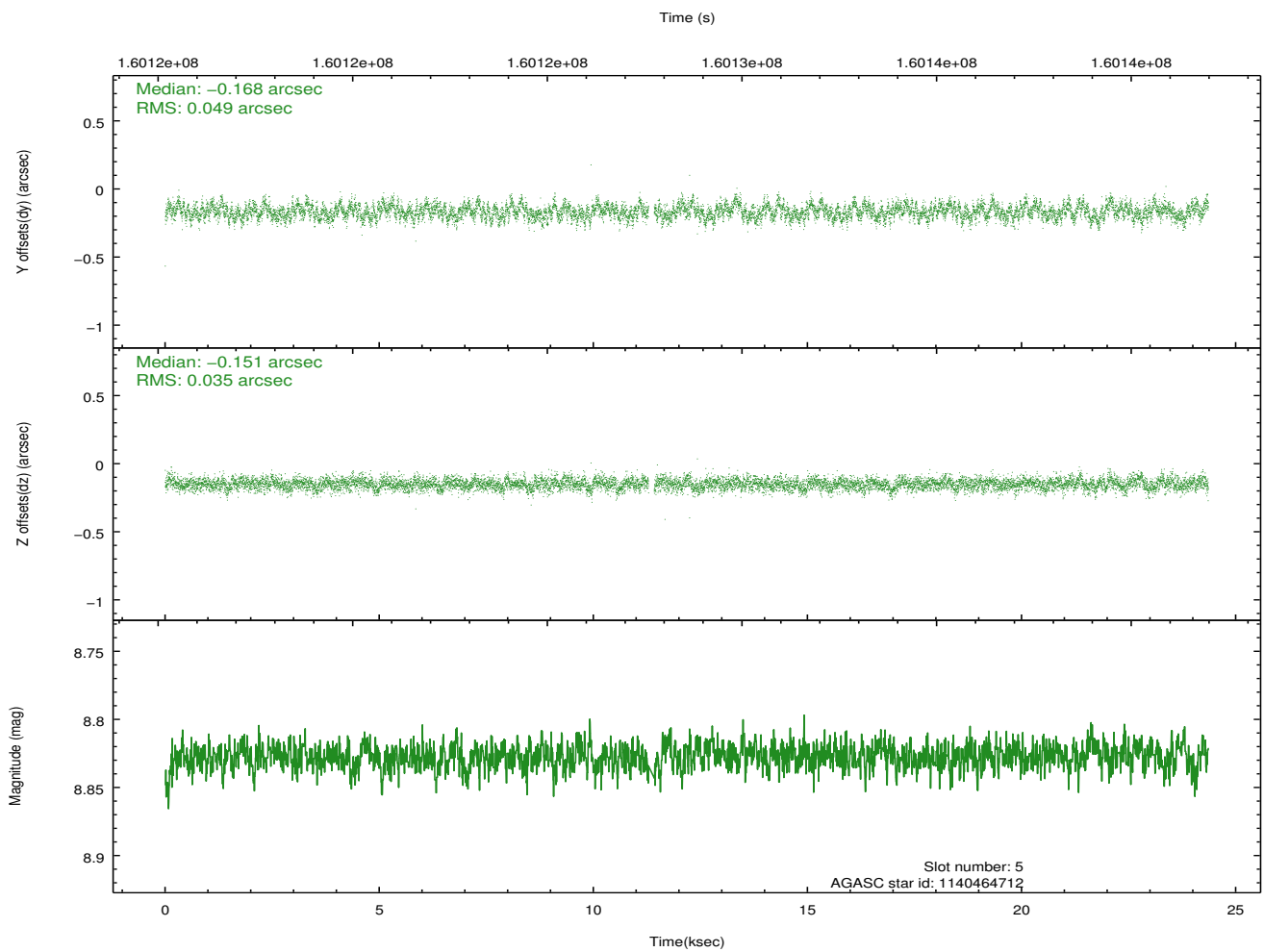
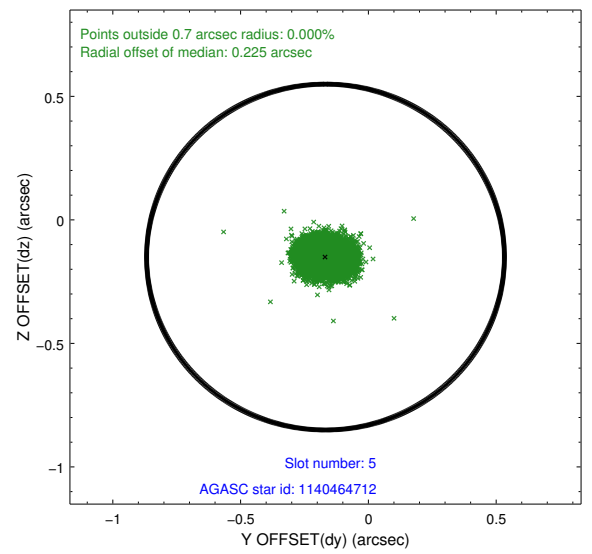
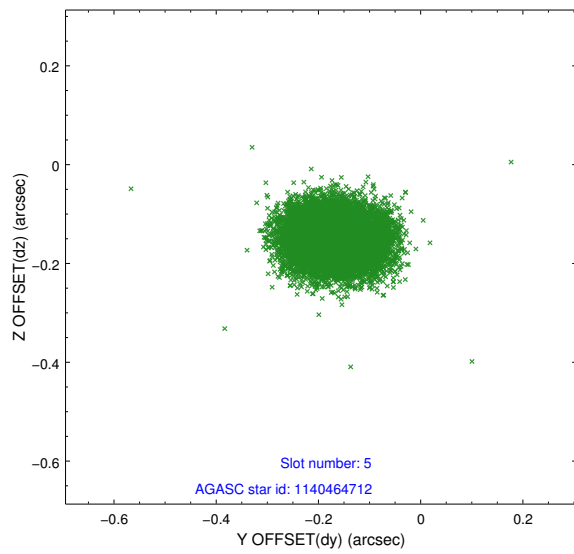
### 2.4.1 Slot 3



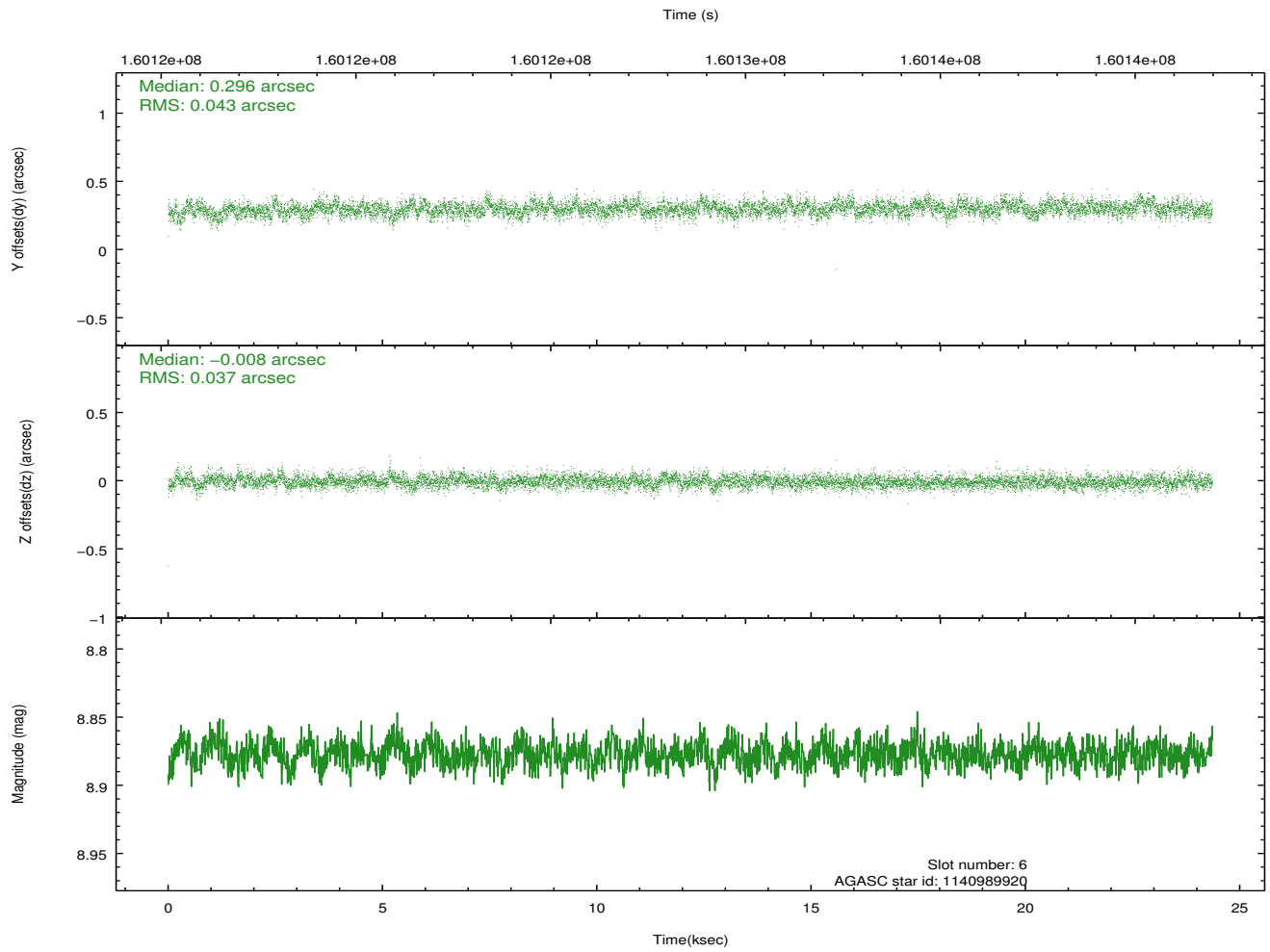
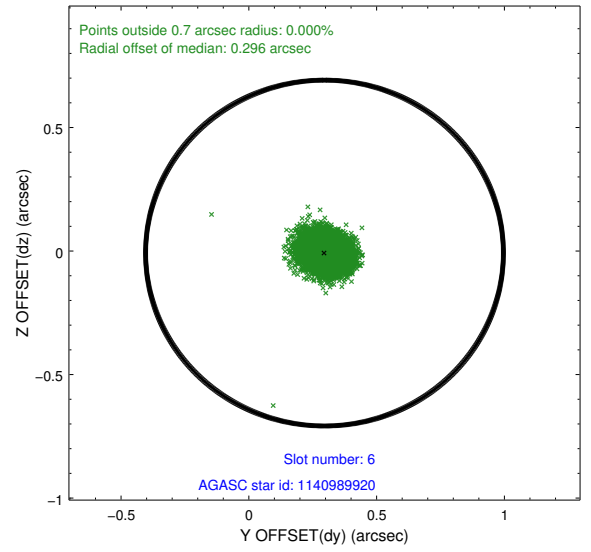
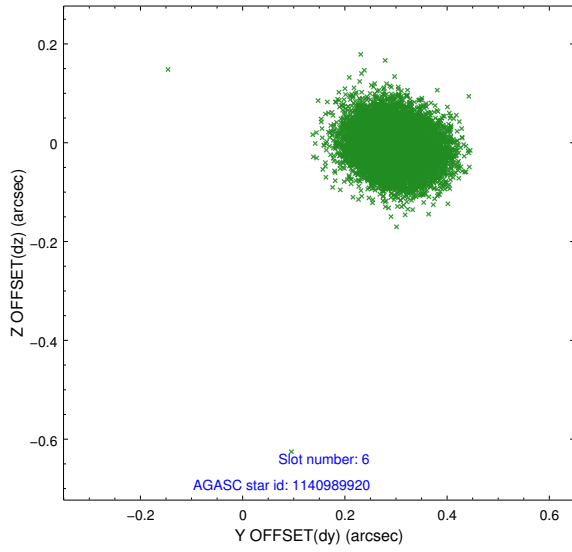
## 2.4.2 Slot 4



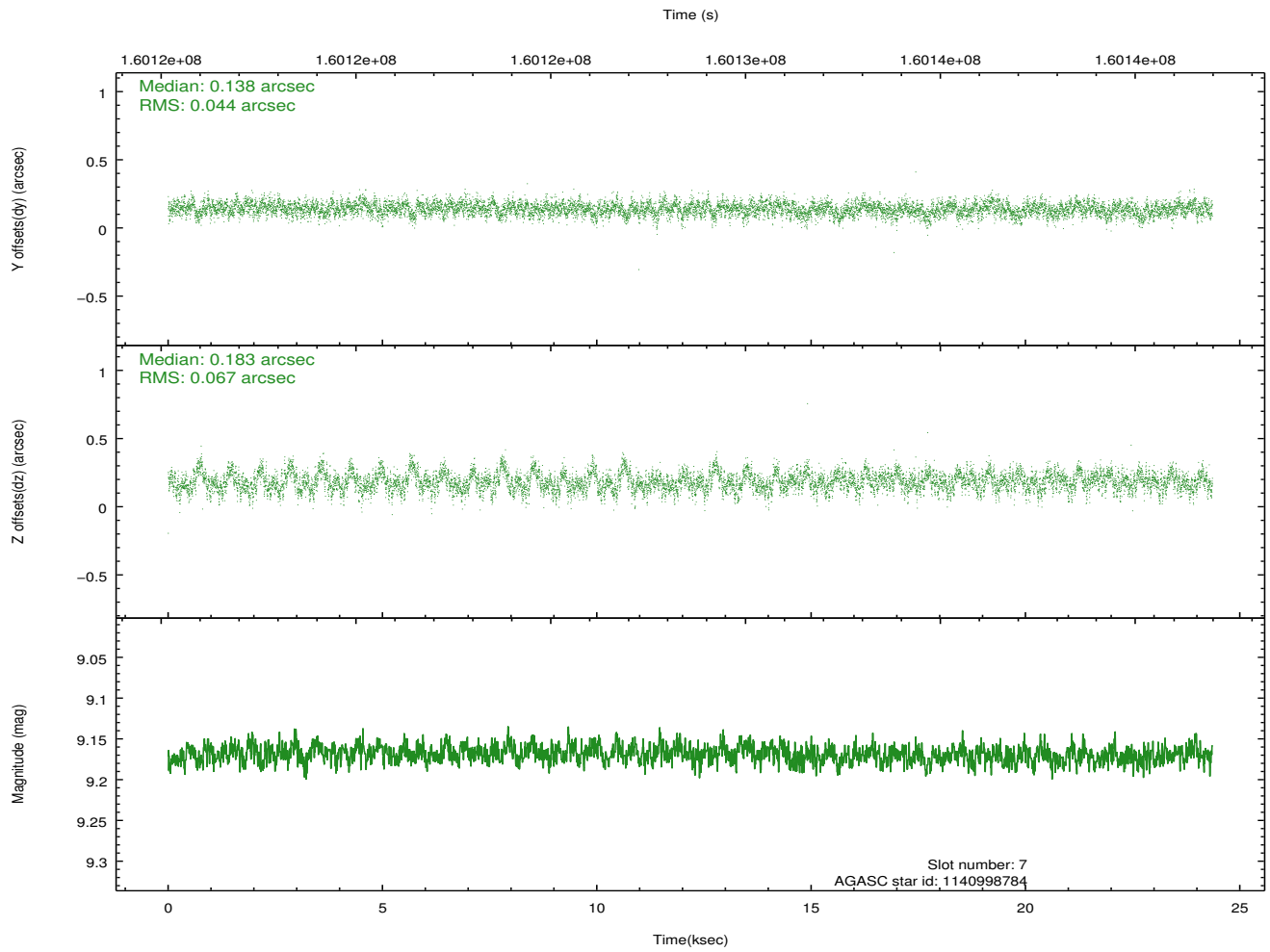
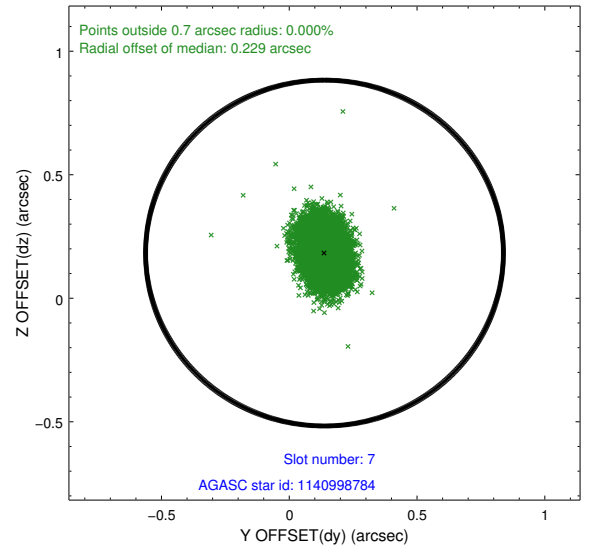
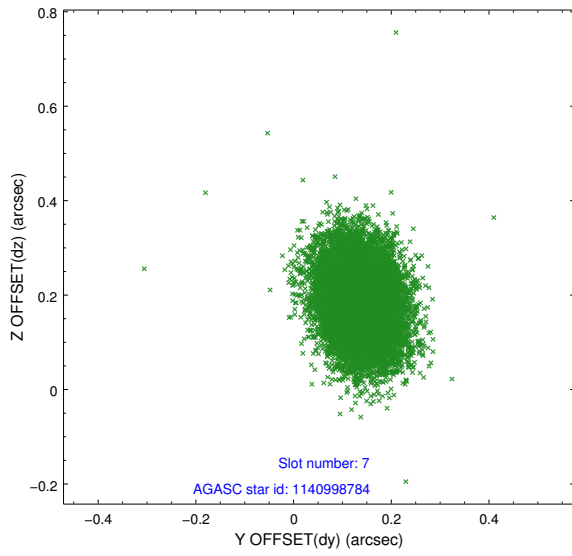
### 2.4.3 Slot 5



## 2.4.4 Slot 6

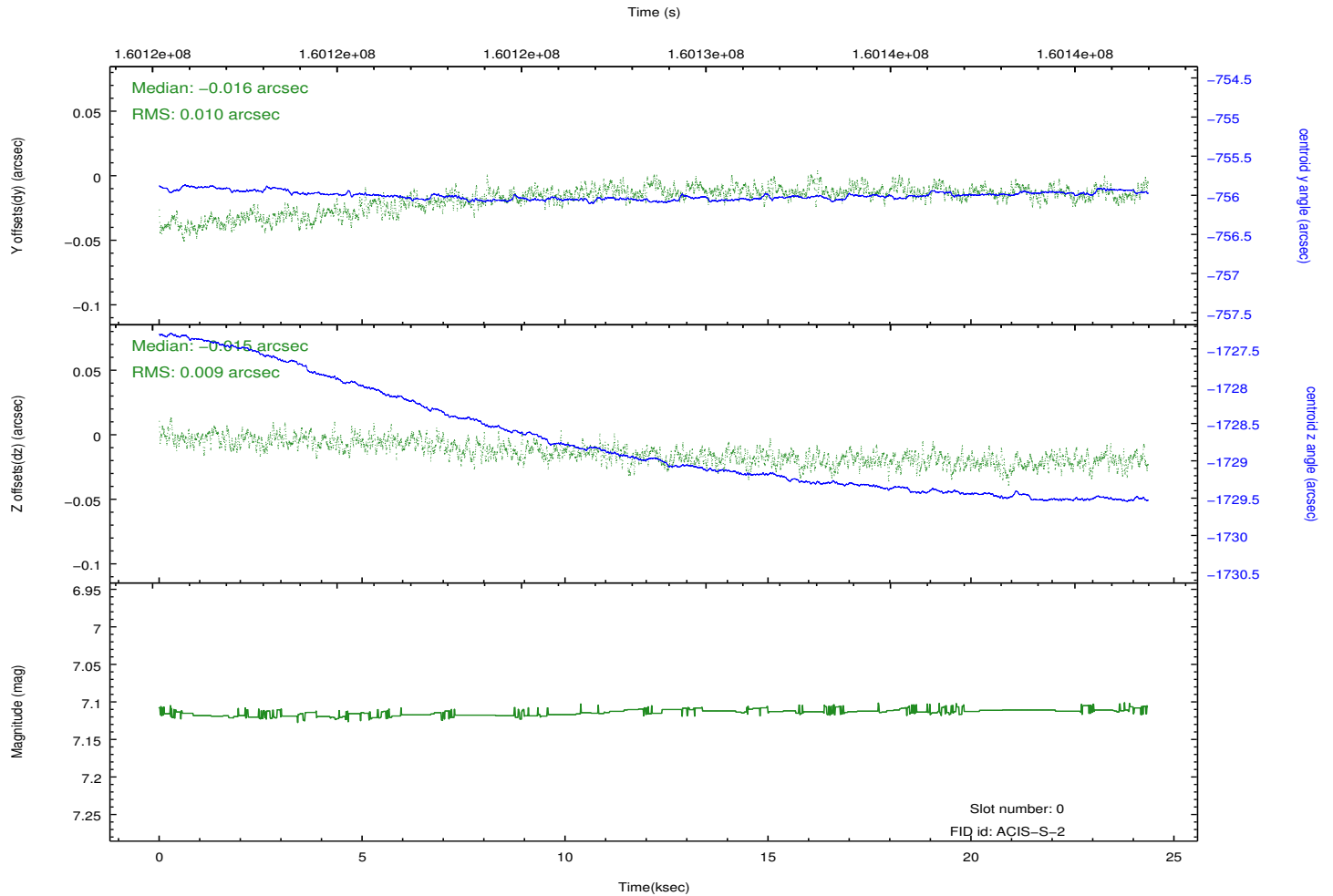
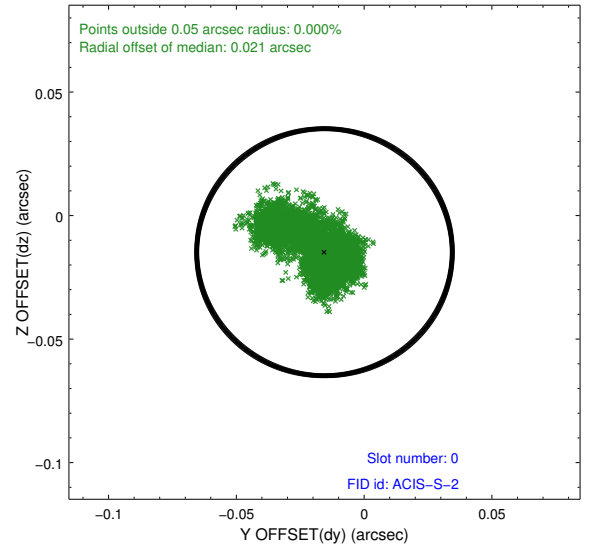
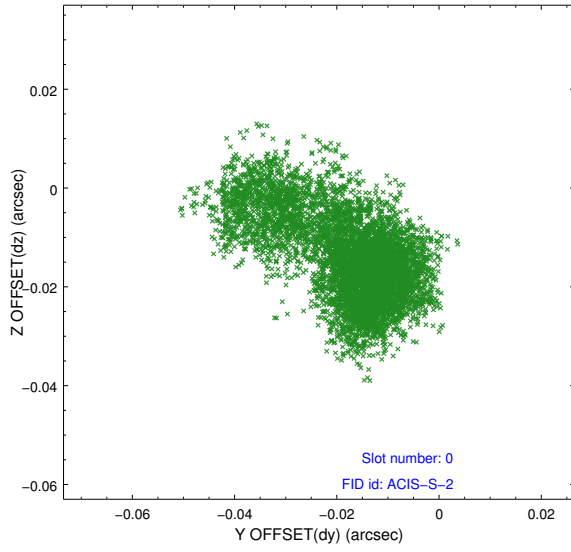


## 2.4.5 Slot 7

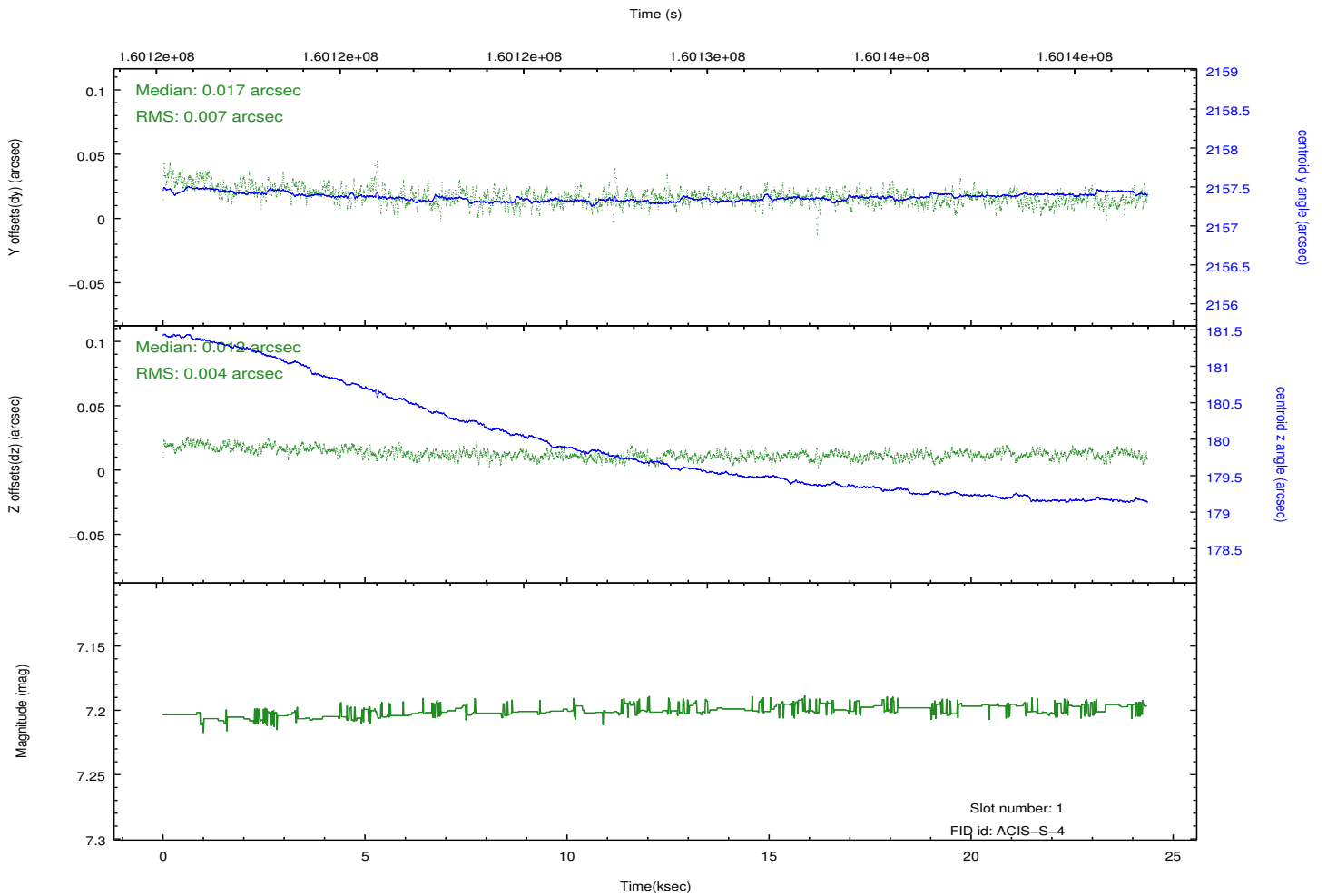
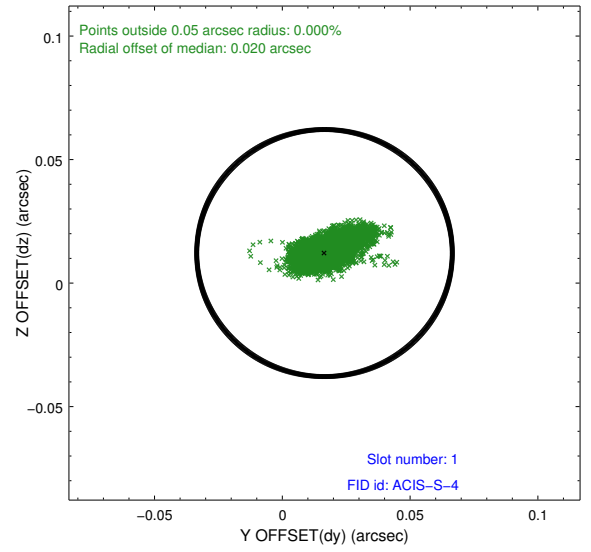
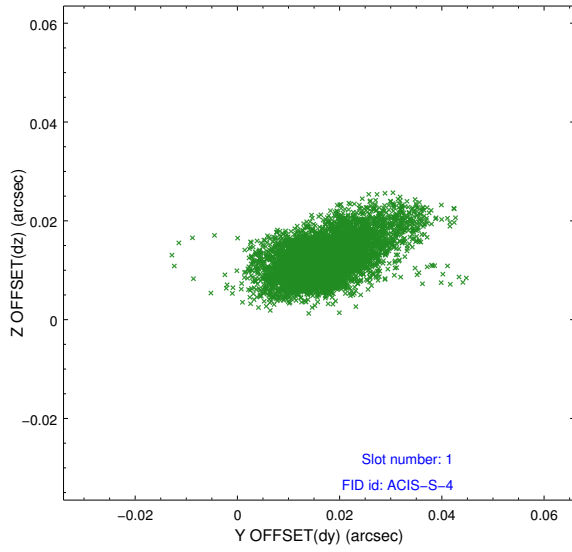


## 2.5 FID Slots

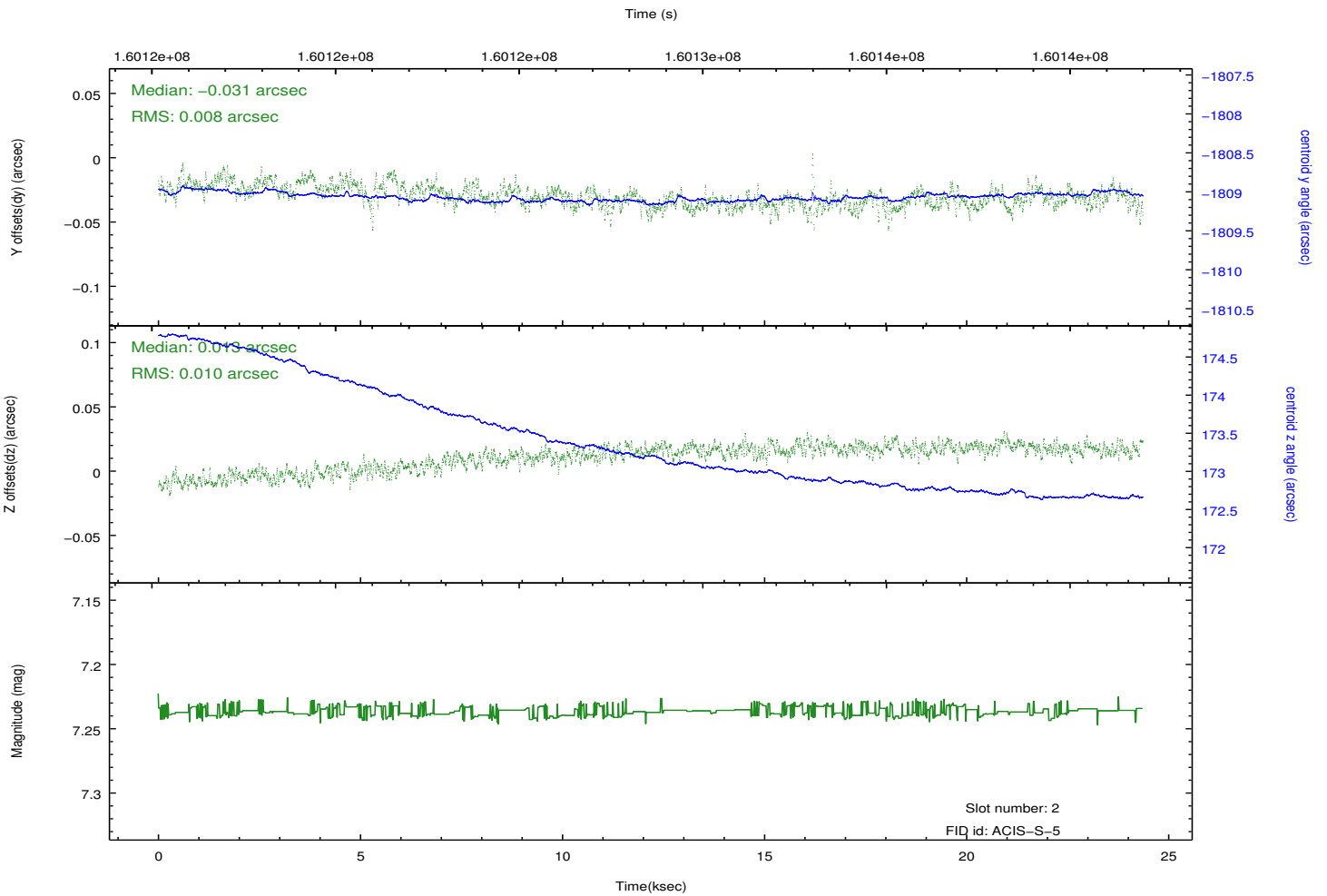
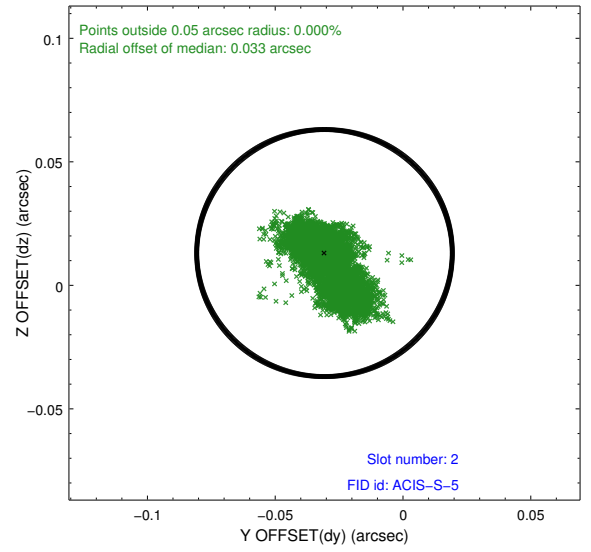
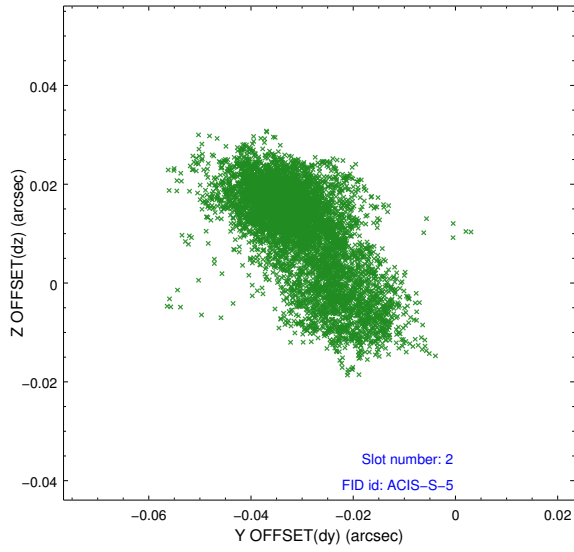
### 2.5.1 Slot 0



## 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)	2012.11.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.987

## A.2 Comments

Window constraint met.