

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3014 - L2 Version 3  
Chandra X-Ray Center

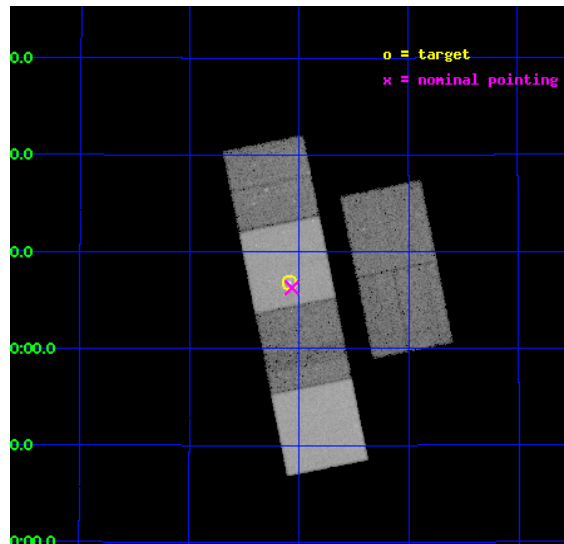
L2 Processing Date : Oct 8 2012

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# 1 Front

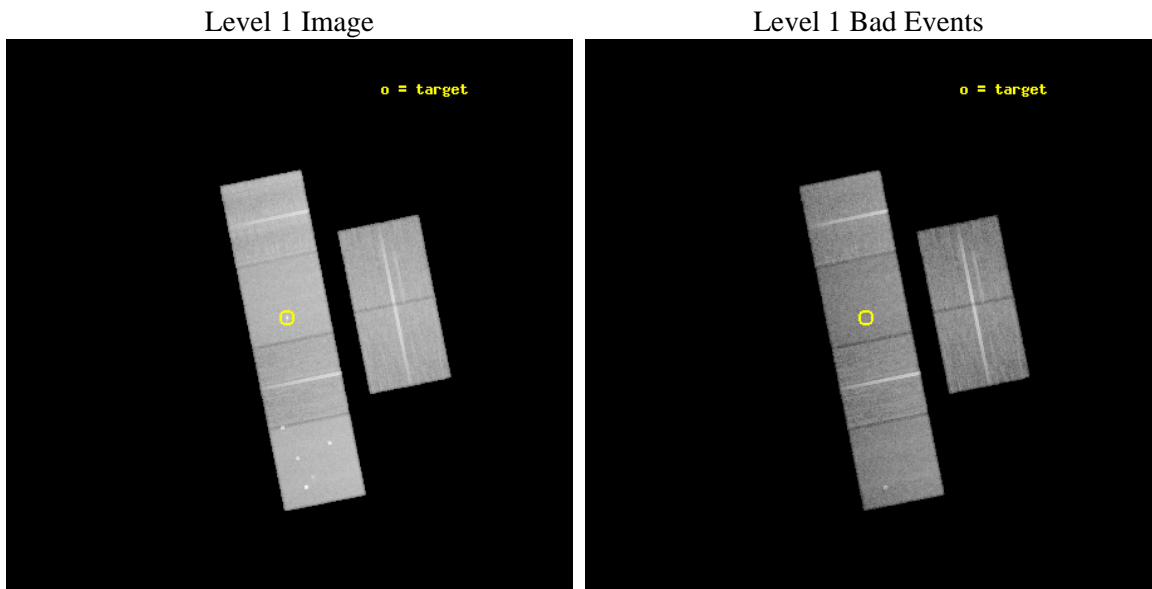
seq_num	700453	Sequence number
obs_id	3014	Observation id
title	SUPERWIND EVOLUTION: THE YOUNG STARBURST-DRIVEN WIND GALAXY NGC 2782	&#160
observer	DR IAN STEVENS	Principal investigator
object	NGC 2782	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.52125	Observer's specified target RA [deg]
dec_targ	40.113611	Observer's specified target Dec [deg]
ra_nom	138.51656703261	Nominal RA [deg]
dec_nom	40.104596851141	Nominal Dec [deg]
roll_nom	258.55613008785	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29961.334130794	Sum of GTIs [s]
livetime	29581.94567748	Livetime [s]
ontime2	29961.375170797	Sum of GTIs [s]
ontime3	29961.211010784	Sum of GTIs [s]
ontime5	29961.293090791	Sum of GTIs [s]
ontime6	29958.011060596	Sum of GTIs [s]
ontime7	29961.334130794	Sum of GTIs [s]
ontime8	29961.16997081	Sum of GTIs [s]
l2events	321961	Number of level 2 events



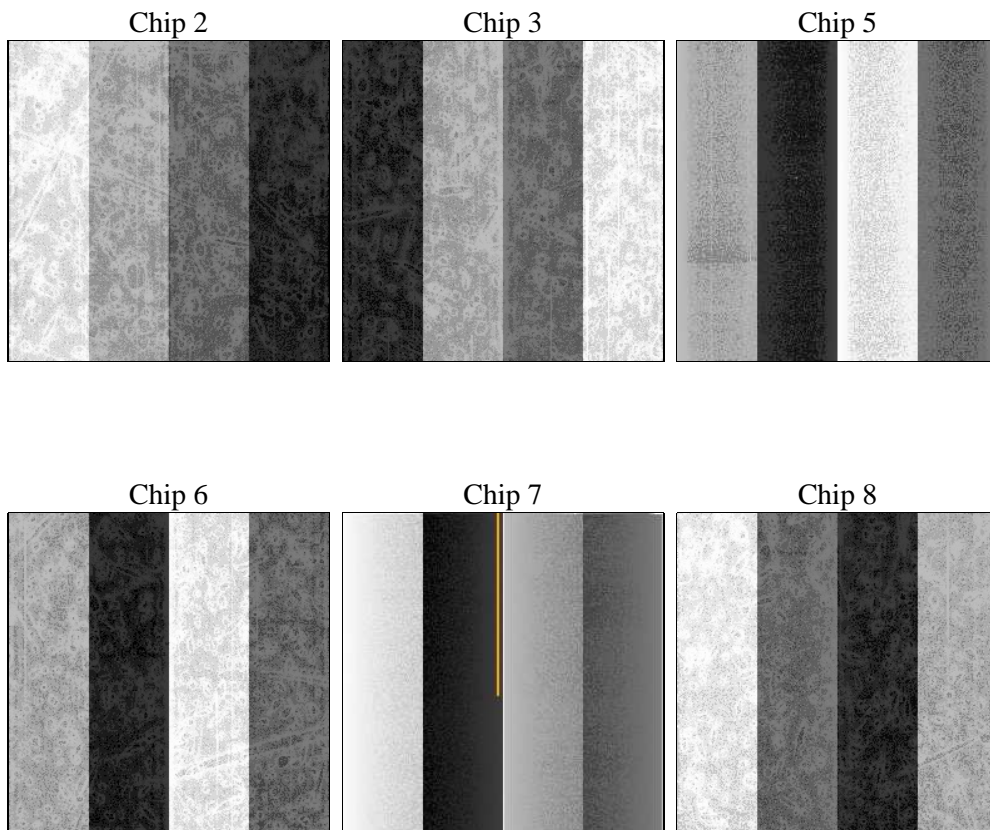
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	29961.334130794	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	29961.375170797	Sum of GTIs [s]
date	2012-10-08T05:51:14	Date and time of file creation	ontime3	29961.211010784	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	29961.293090791	Sum of GTIs [s]
			ontime6	29958.011060596	Sum of GTIs [s]
			ontime7	29961.334130794	Sum of GTIs [s]
			ontime8	29961.16997081	Sum of GTIs [s]
			l1events	1393428	Number of level 1 events

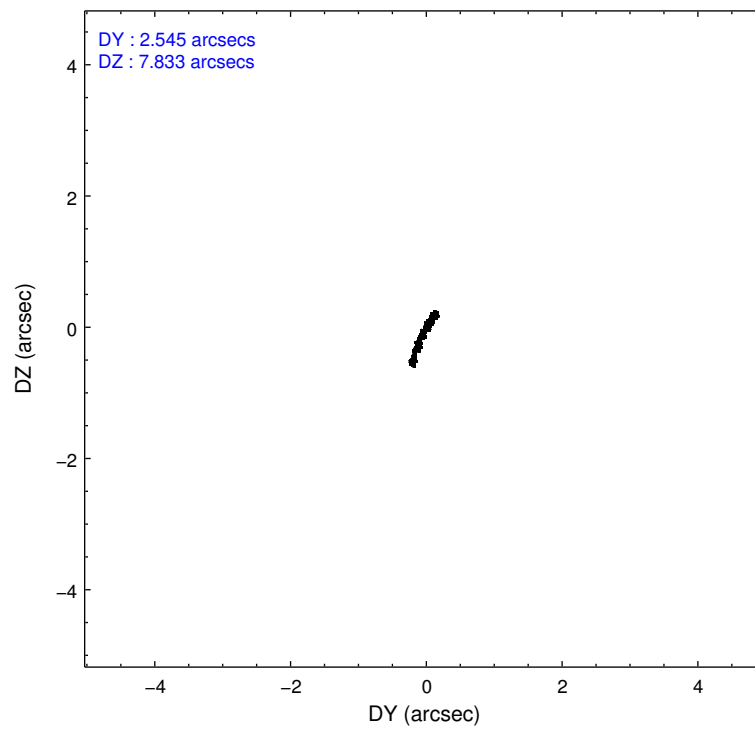
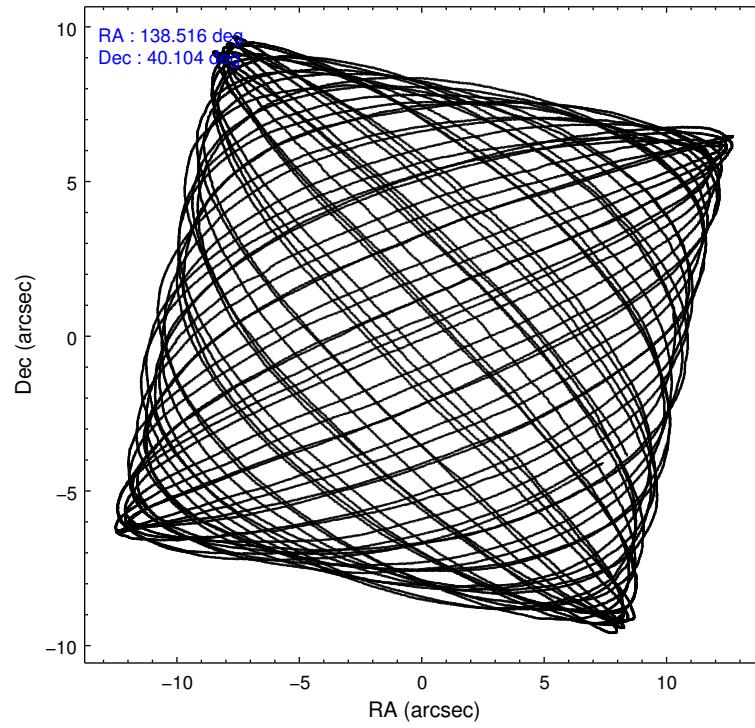
### 2.1.4 Events

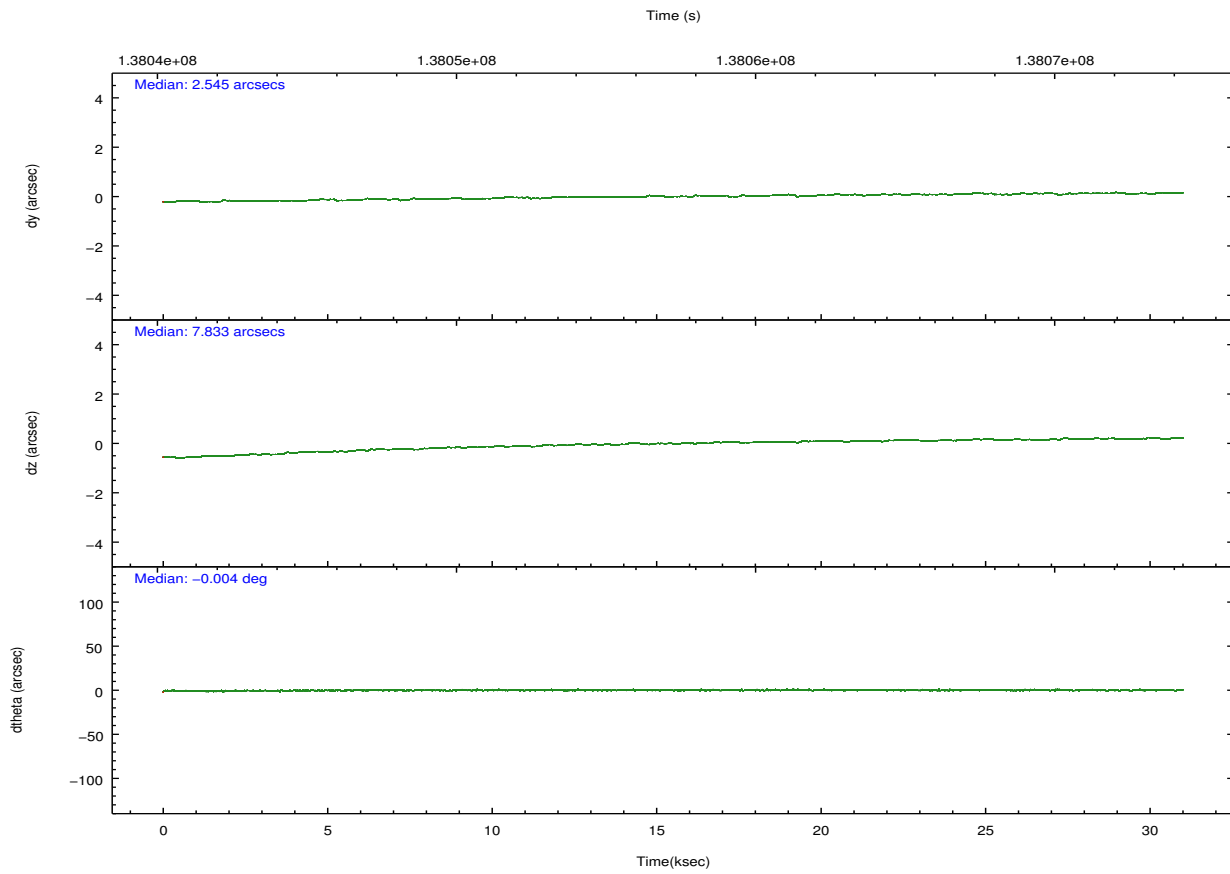
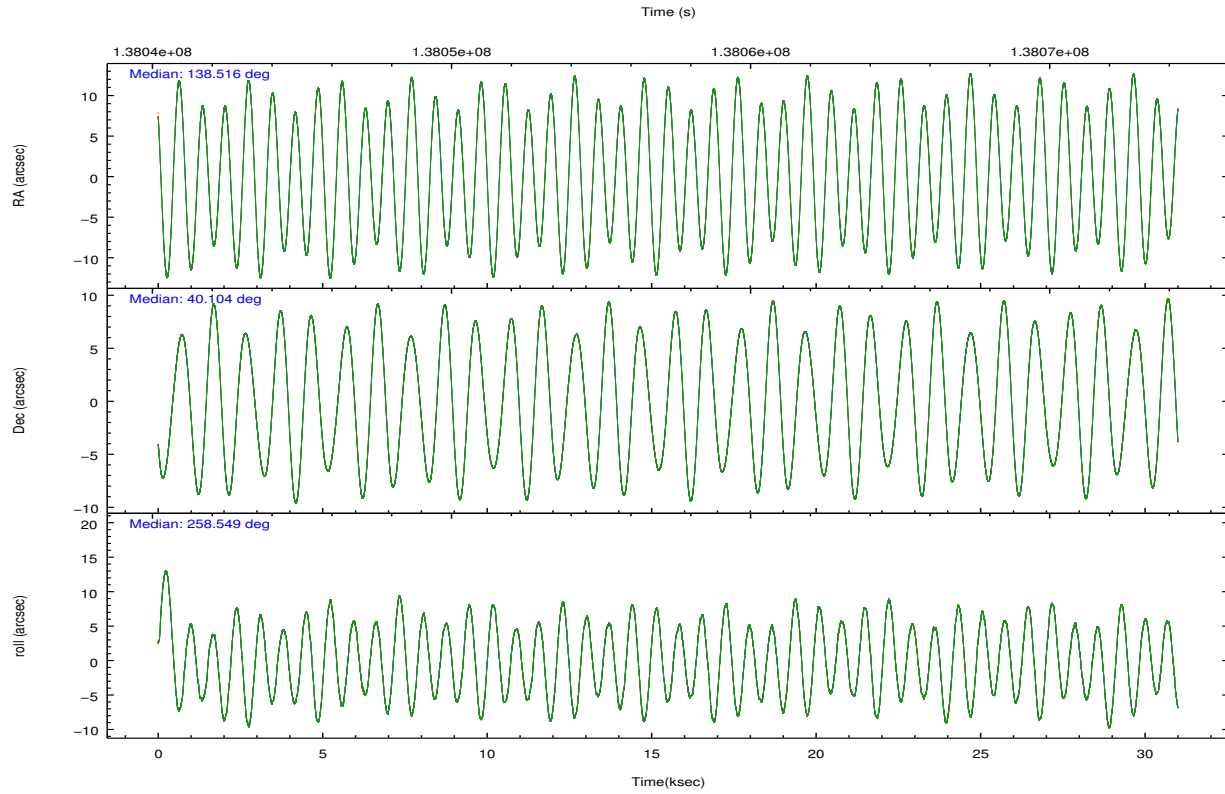
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	200491	191541	282366	198625	256955	263450	grade 0 events	11114	10665	14587	10481	10894	24753
rejected events	174085	165513	151309	172047	148353	192764		5%	5%	5%	5%	4%	9%
rejected %	86%	86%	53%	86%	57%	73%	grade 1 events	107	102	422	85	277	250
								0%	0%	0%	0%	0%	0%
							grade 2 events	6007	6188	38719	6381	21707	13315
								2%	3%	13%	3%	8%	5%
							grade 3 events	2173	2046	5489	2232	9674	9321
								1%	1%	1%	1%	3%	3%
							grade 4 events	2139	2153	5273	2215	9626	8479
								1%	1%	1%	1%	3%	3%
							grade 5 events	6910	7528	21168	8196	24126	10424
								3%	3%	7%	4%	9%	3%
							grade 6 events	4975	4978	67018	5278	56730	14829
								2%	2%	23%	2%	22%	5%
							grade 7 events	167066	157881	129690	163757	123921	182079
								83%	82%	45%	82%	48%	69%

## 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	138.504820	138.5165670326101	Subarray requested	NONE	NONE
[deg] Pointing Dec	40.130313	40.10459685114078	Alternating exposures requested	N	N
[deg] Pointing Roll	258.407076	258.5561300878463	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	138042743.184000	138041377.22749			
Observation start date	2002-05-17T17:11:19	2002-05-17T16:49:37			
[s] Observation end time (MET)	138072743.184000	138073667.2913			
Observation end date	2002-05-18T01:31:19	2002-05-18T01:47:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



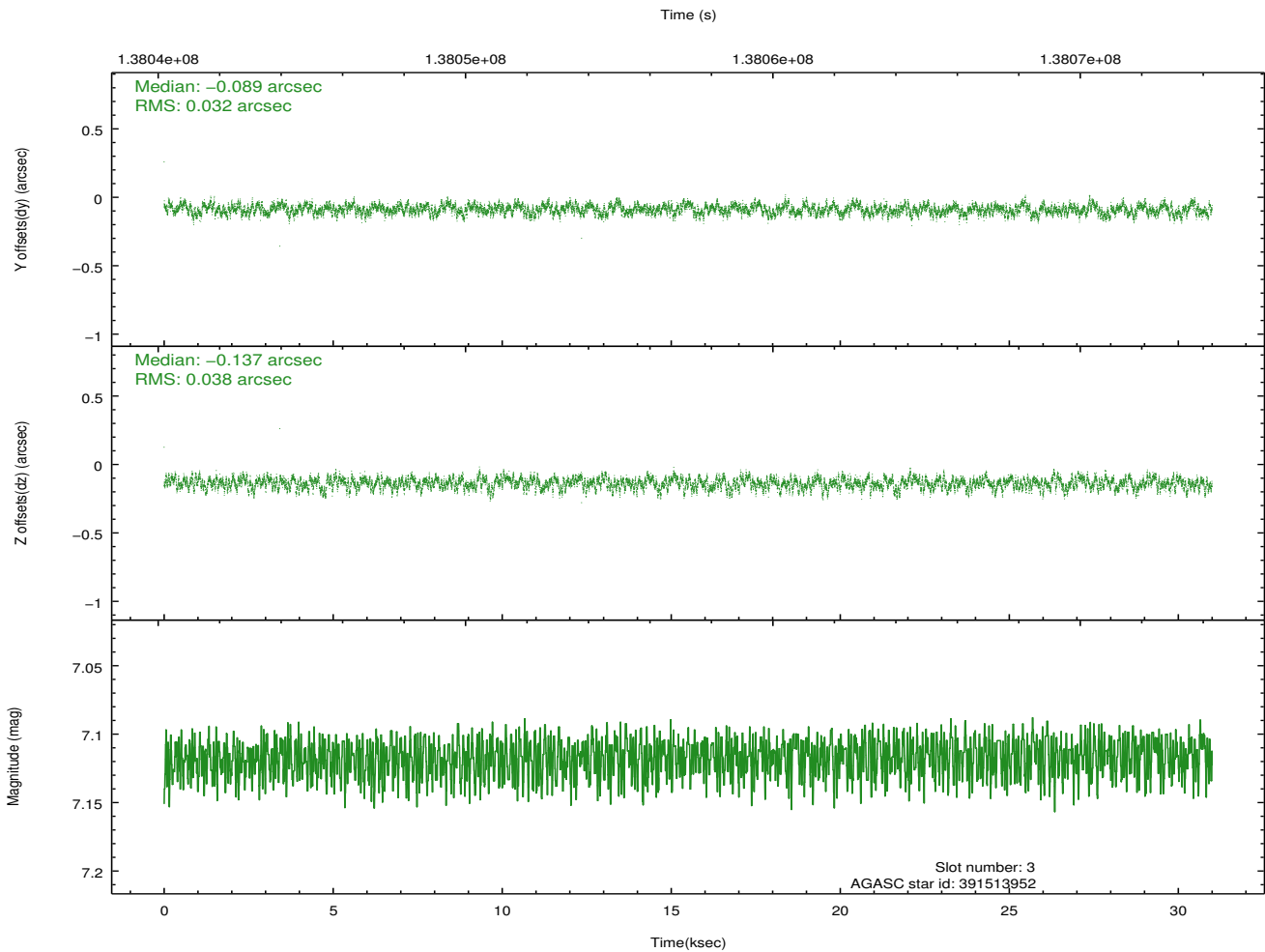
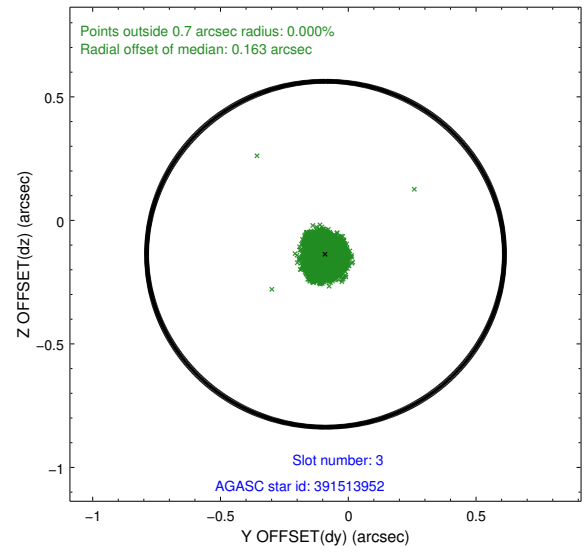
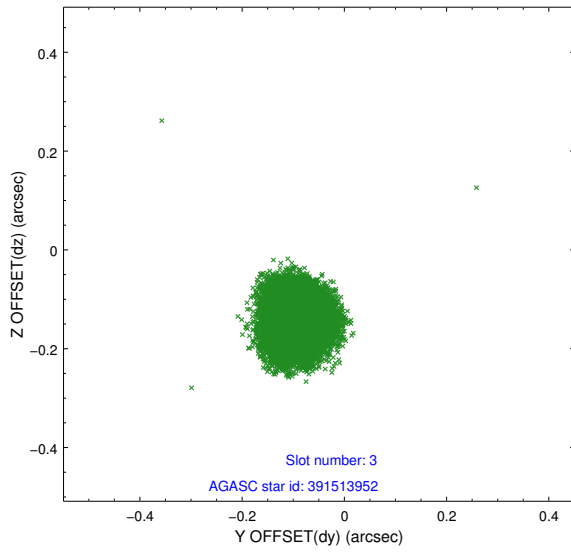


### Slot Statistics

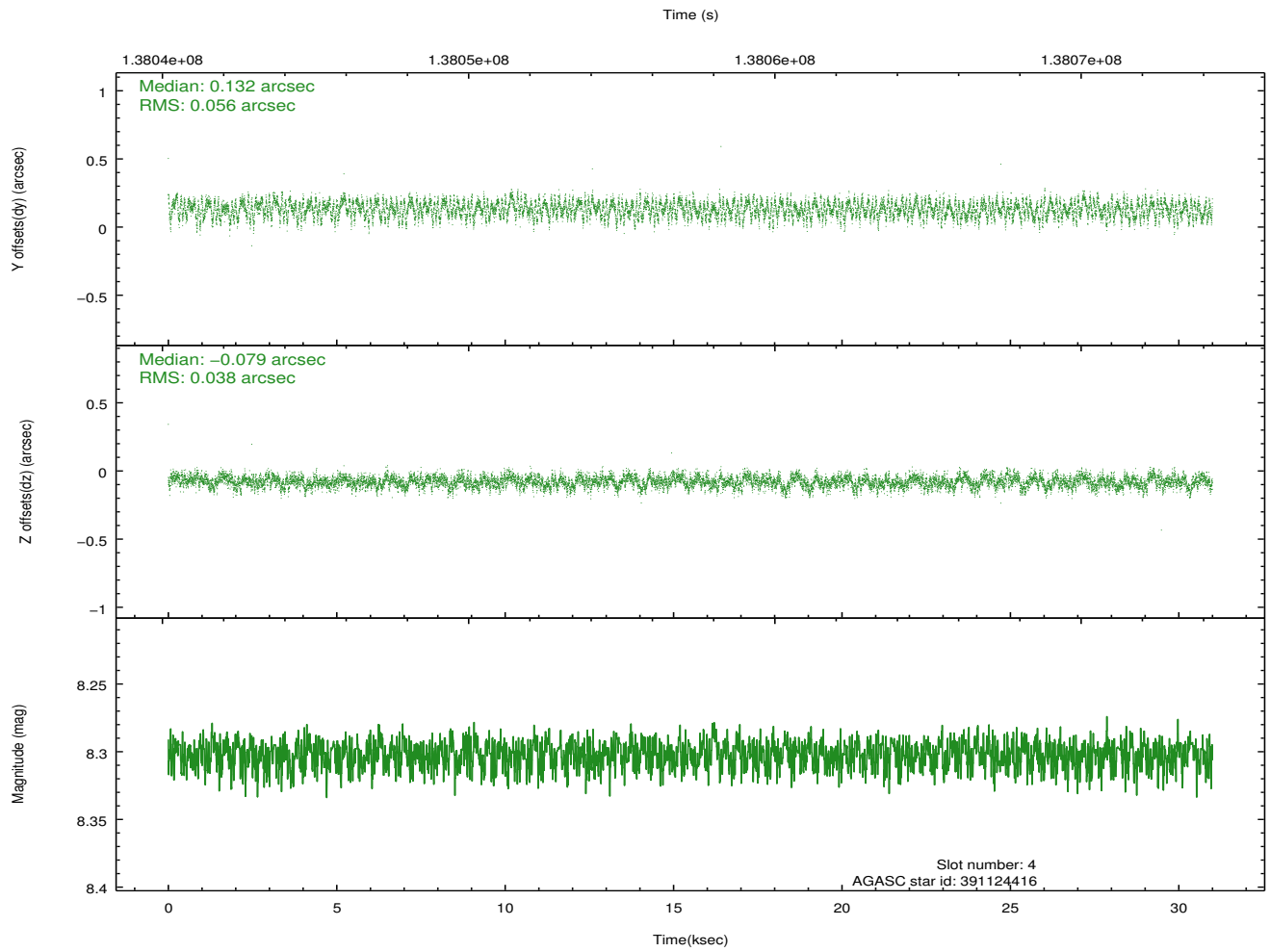
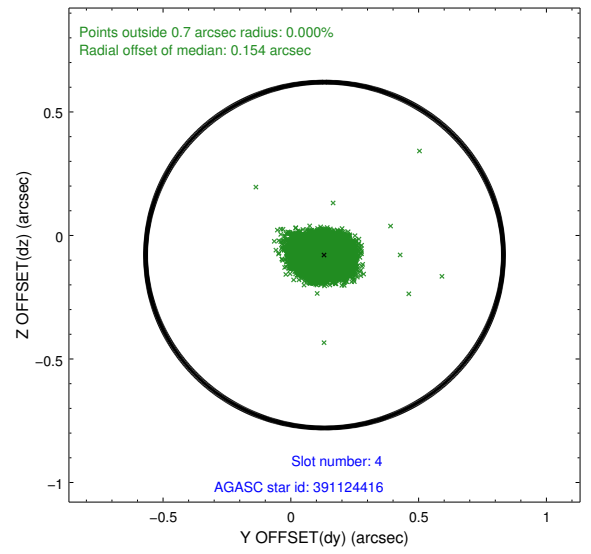
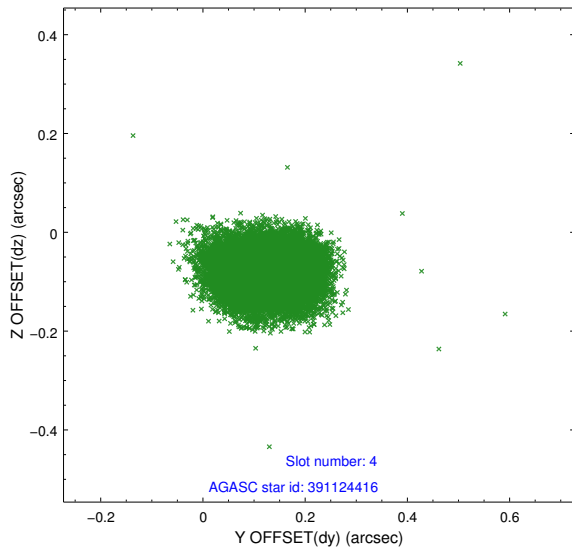
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7562	-0.004	0.008	0.008	0.013	0.000000	0.000000	-755.18	-1728.94
1	FID	ACIS-S-4	7.20	7560	-0.052	-0.000	0.007	0.012	0.000000	0.000000	2158.03	179.44
2	FID	ACIS-S-5	7.24	7561	0.025	0.001	0.010	0.016	0.000000	0.000000	-1807.90	173.22
3	GUIDE	391513952	7.12	15121	-0.089	-0.137	0.053	0.084	137.827547	40.300436	-233.99	-1945.29
4	GUIDE	391124416	8.30	15121	0.132	-0.079	0.073	0.114	137.712866	39.787688	1638.58	-1899.30
5	GUIDE	391518064	8.67	15117	-0.118	0.136	0.079	0.128	139.289727	40.594457	-2078.51	1764.92
6	GUIDE	391126168	9.45	15116	0.142	-0.017	0.118	0.188	137.890130	39.560587	2345.51	-1258.93
7	GUIDE	391516224	9.37	15116	-0.065	0.098	0.098	0.159	139.000415	40.387406	-1184.37	1145.16

## 2.4 Star Slots

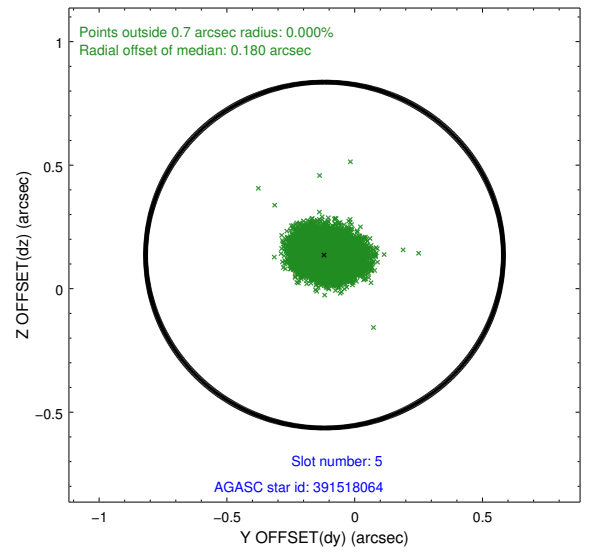
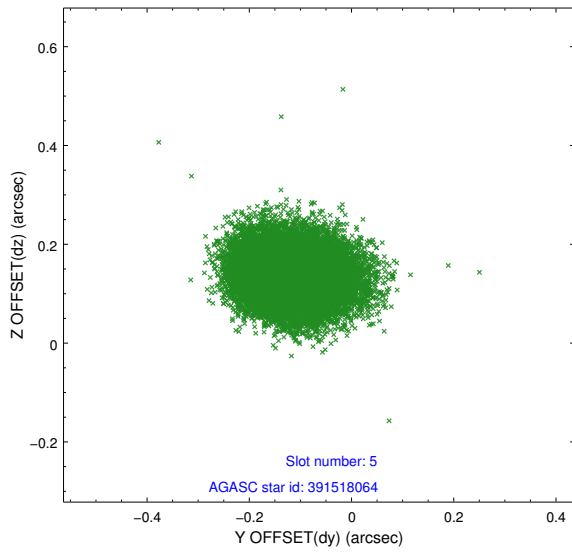
### 2.4.1 Slot 3



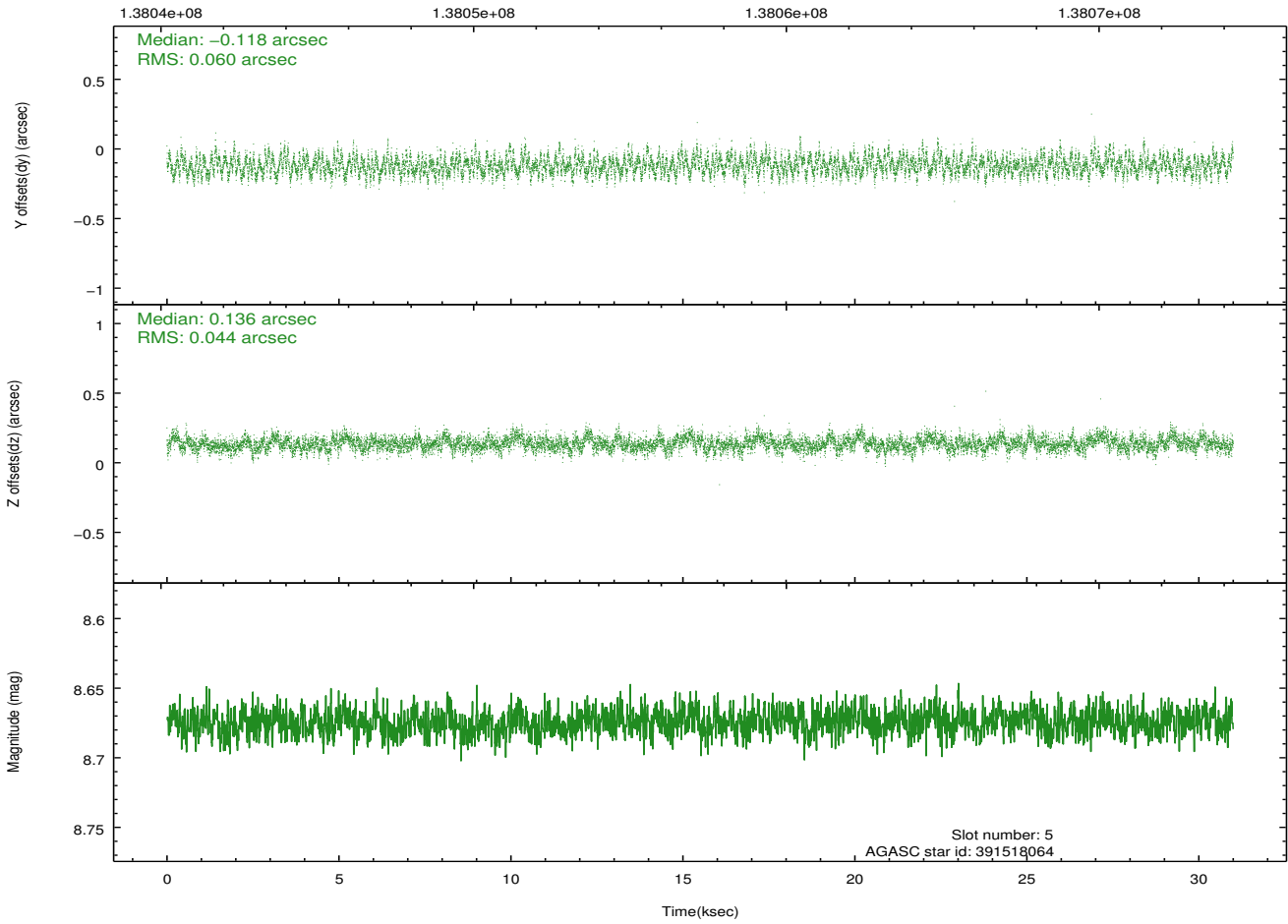
## 2.4.2 Slot 4



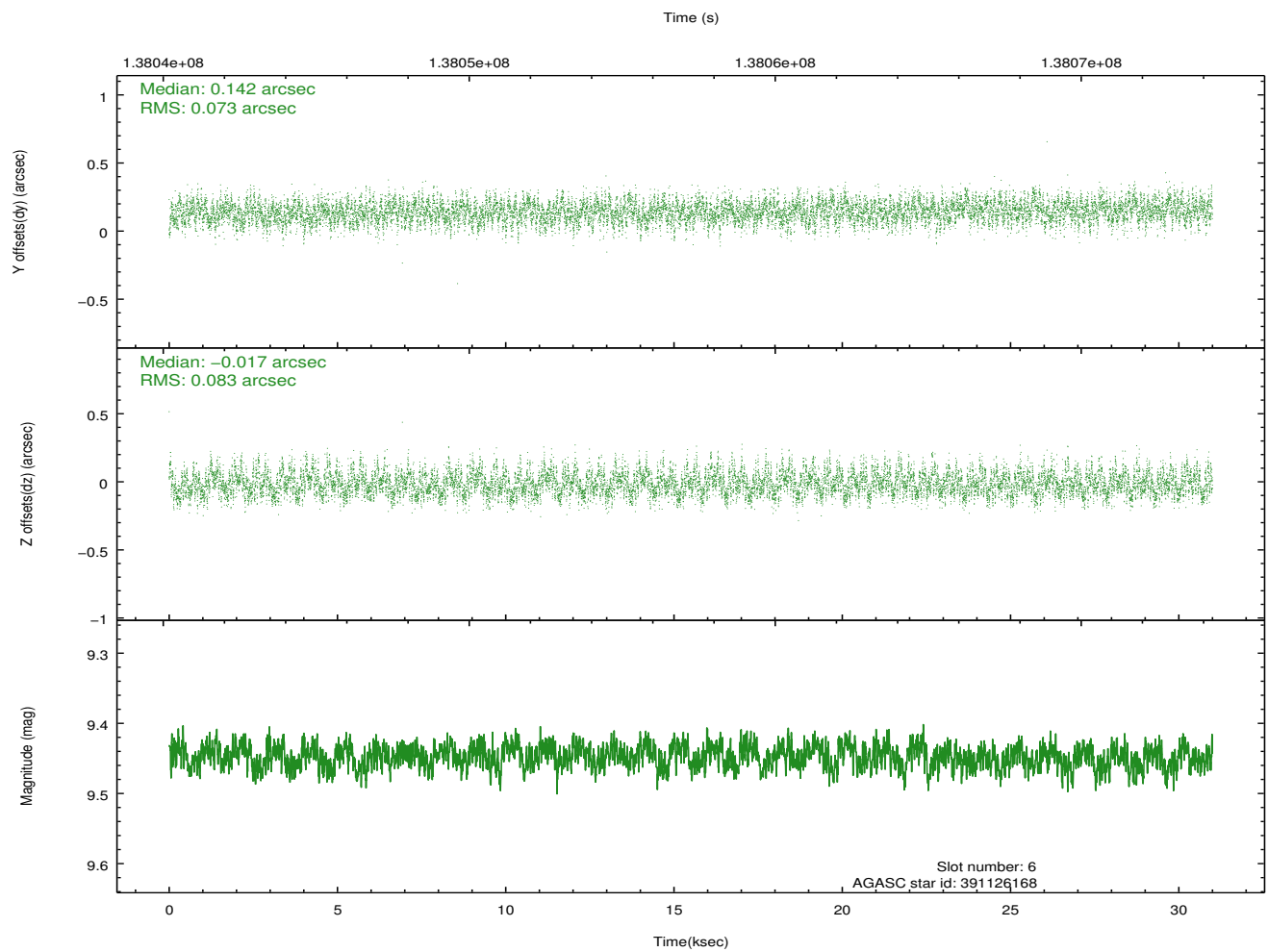
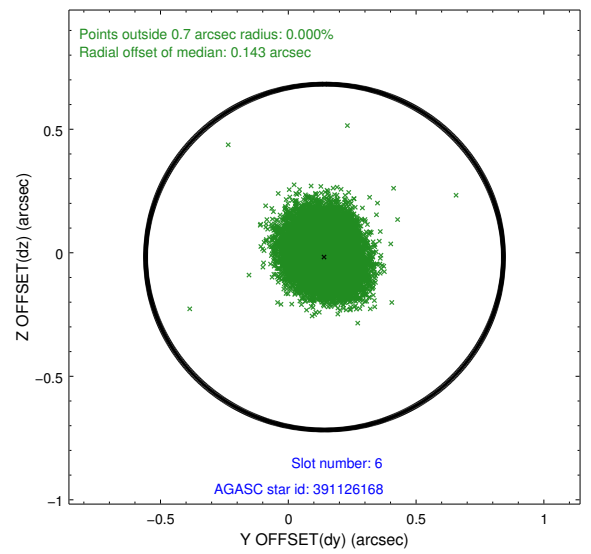
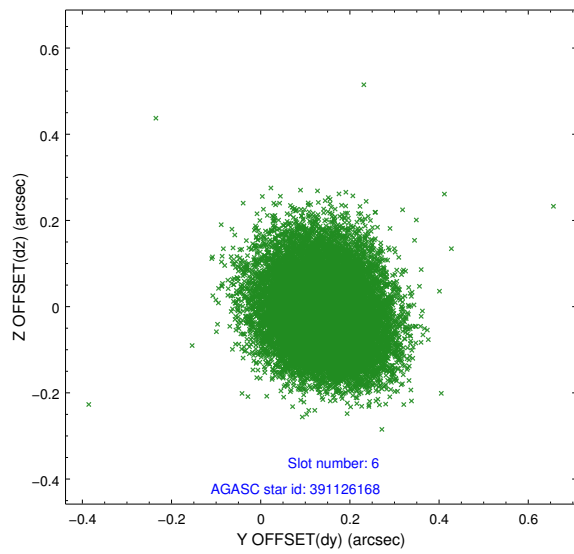
### 2.4.3 Slot 5



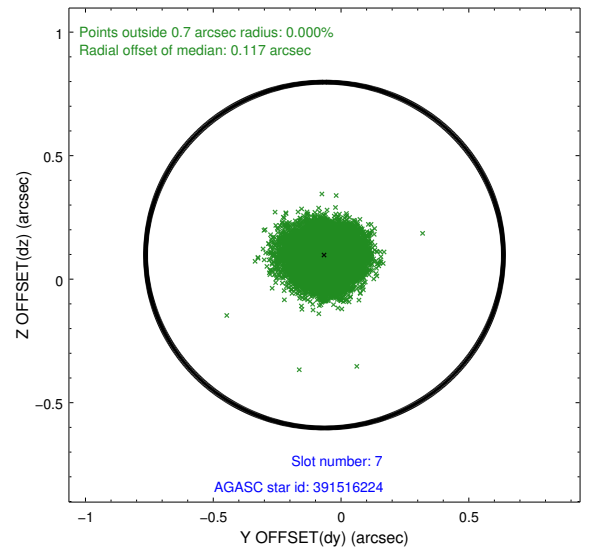
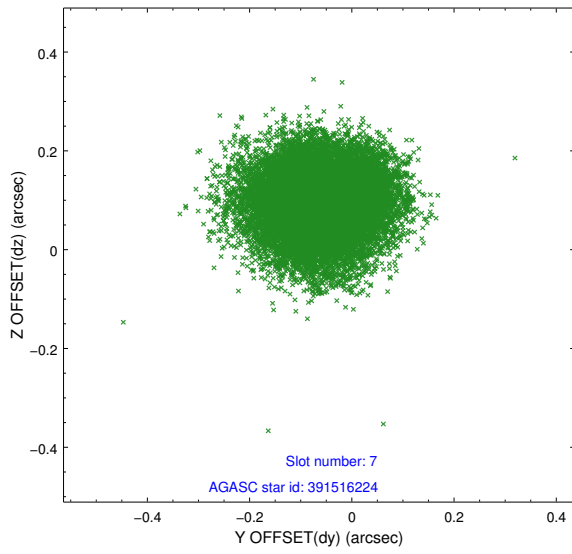
Time (s)



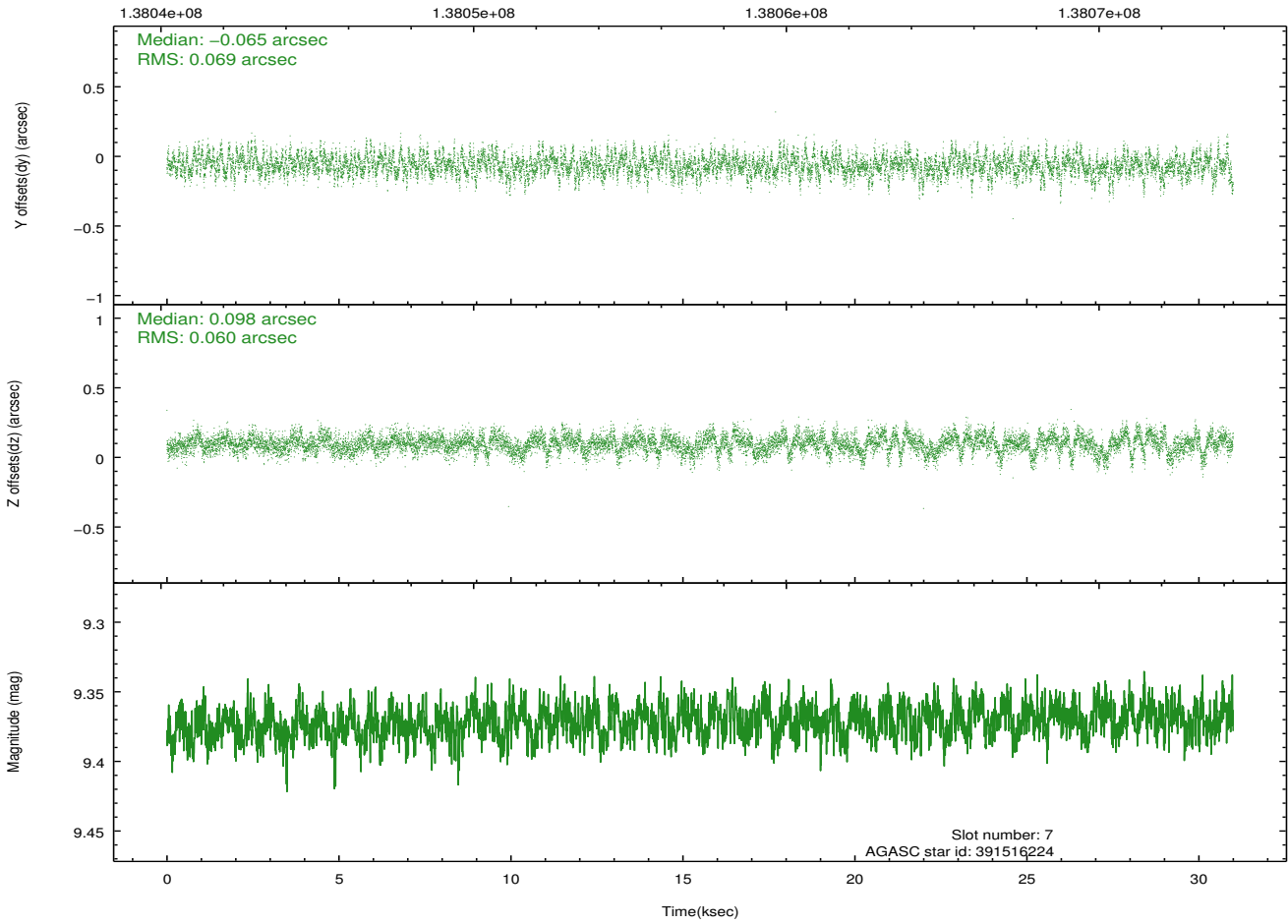
## 2.4.4 Slot 6



### 2.4.5 Slot 7

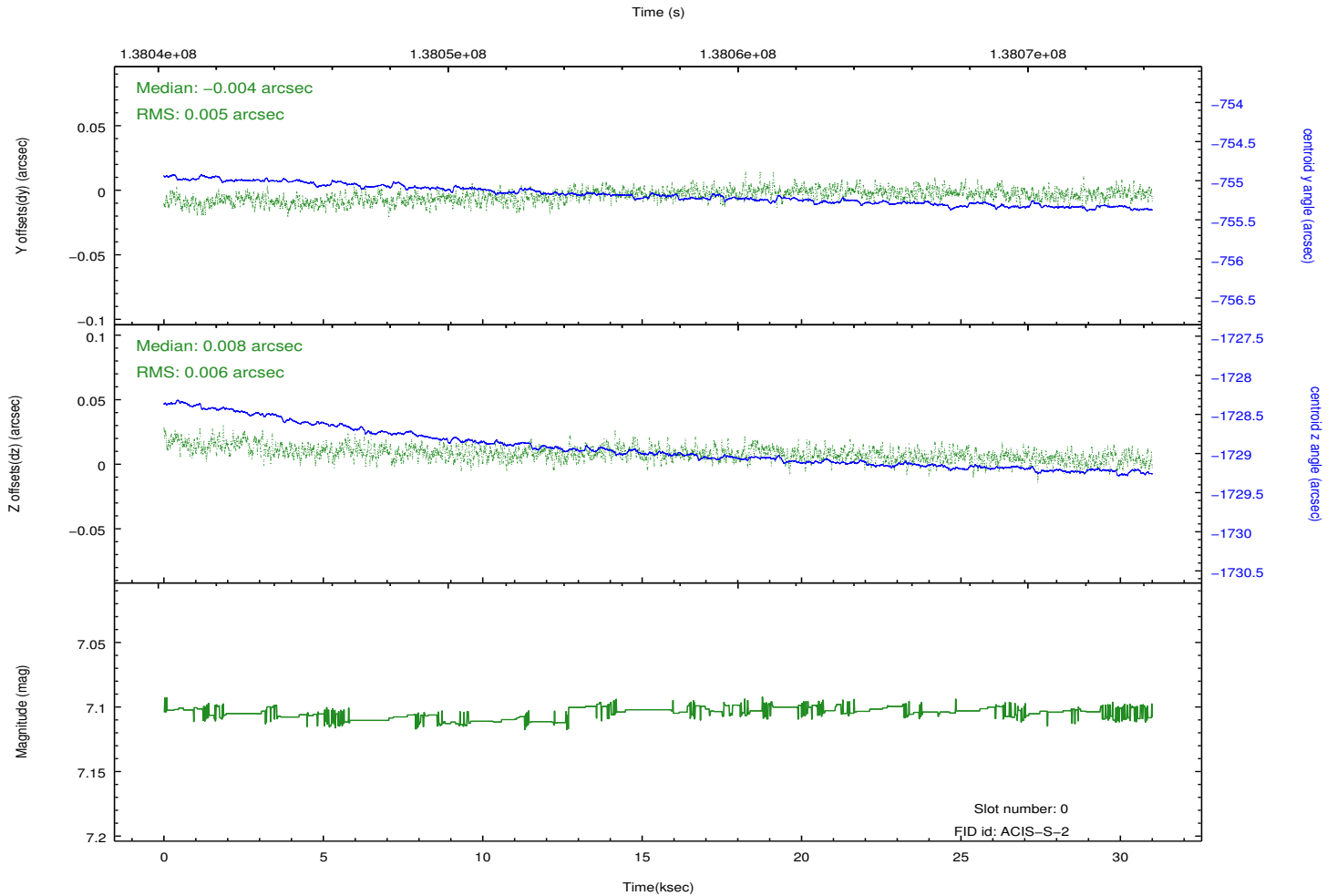
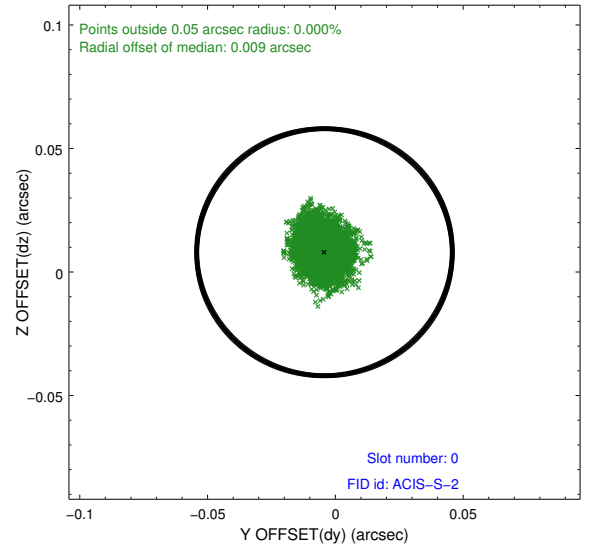
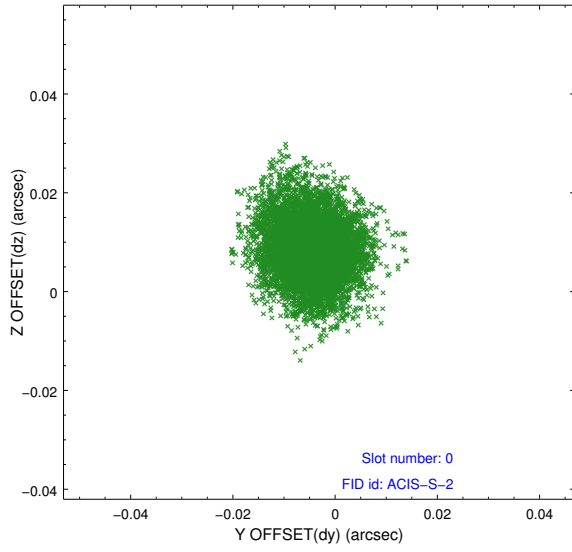


Time (s)

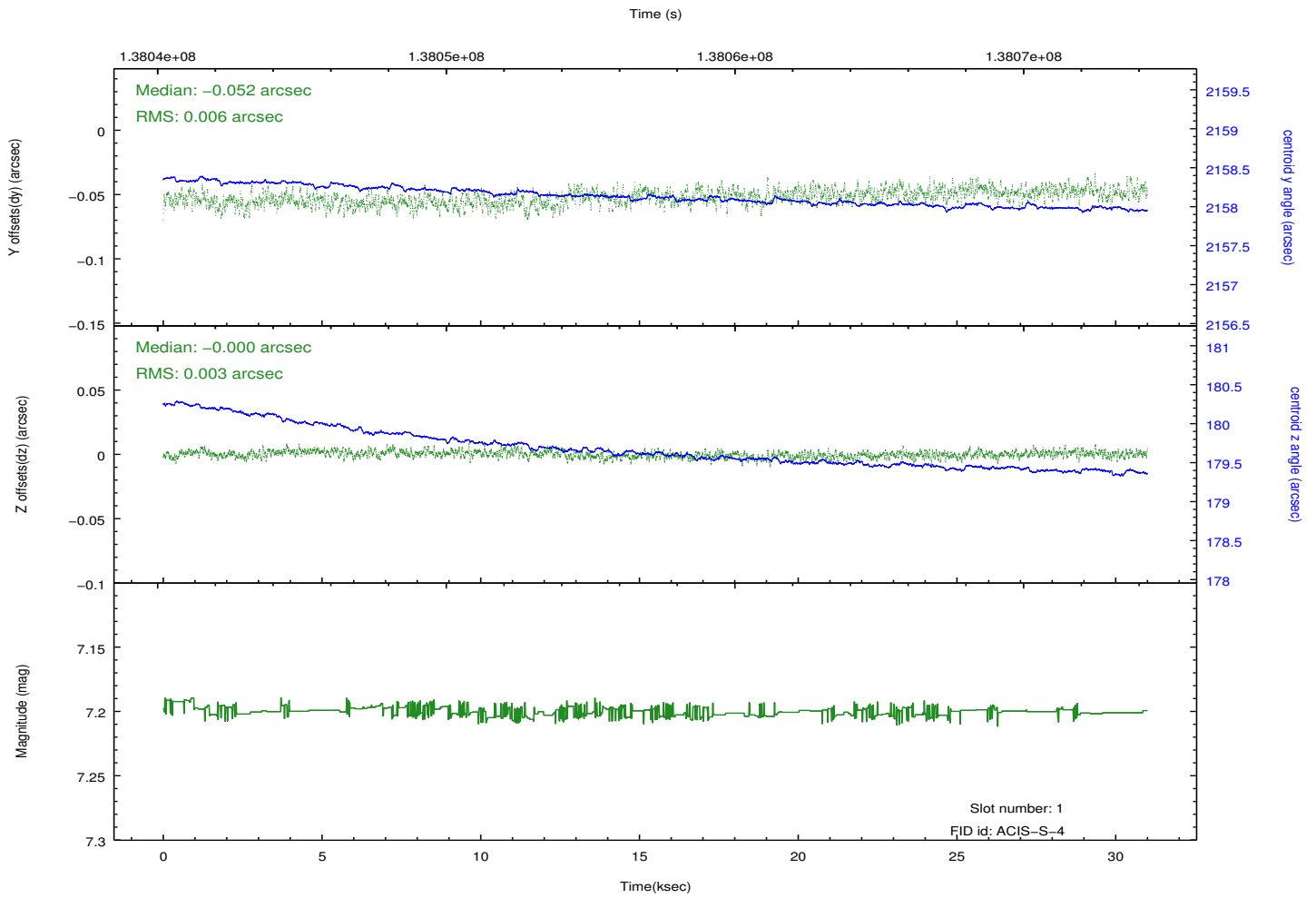
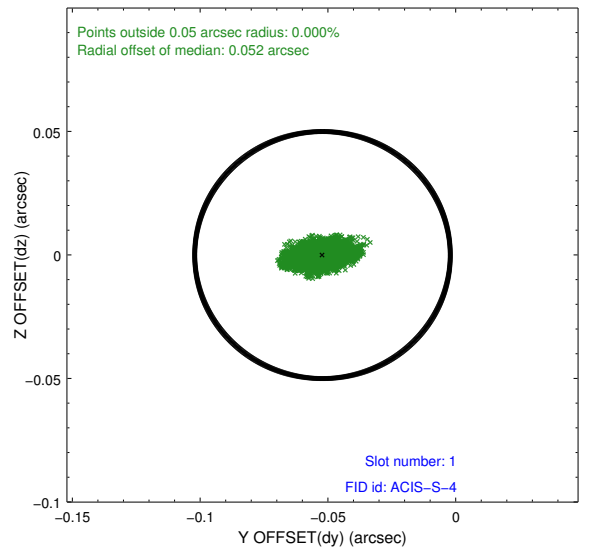
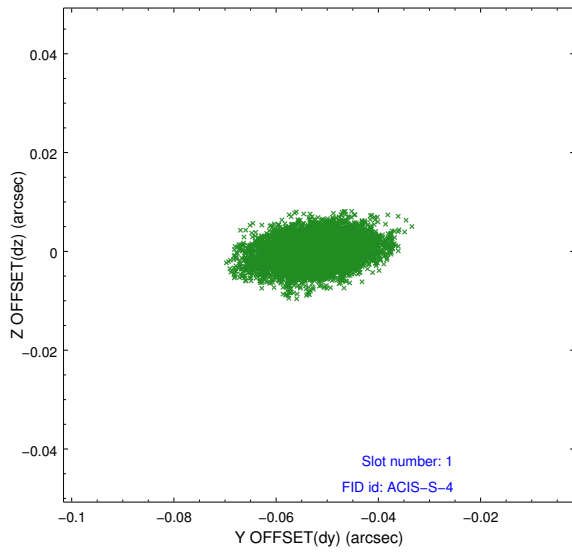


## 2.5 FID Slots

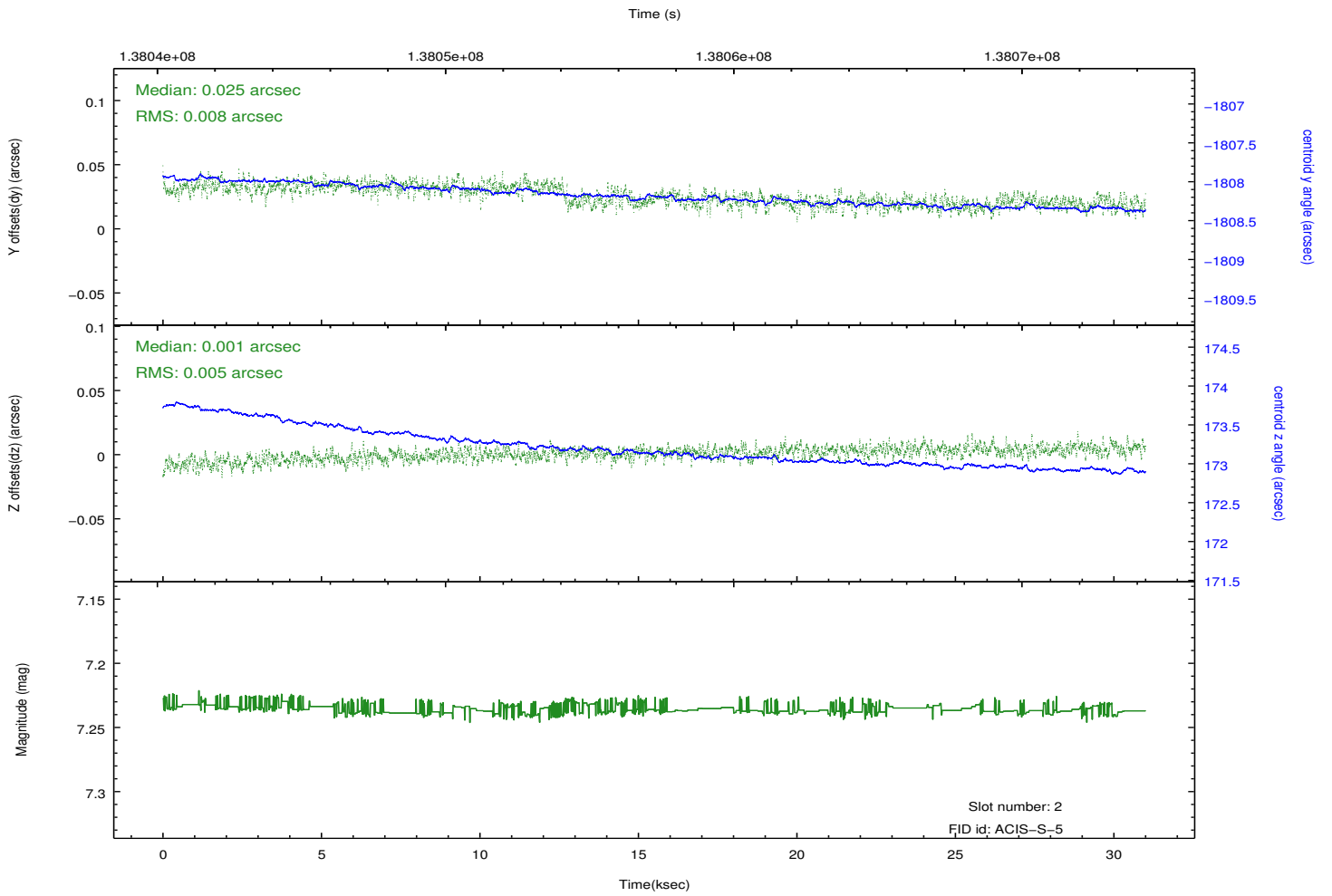
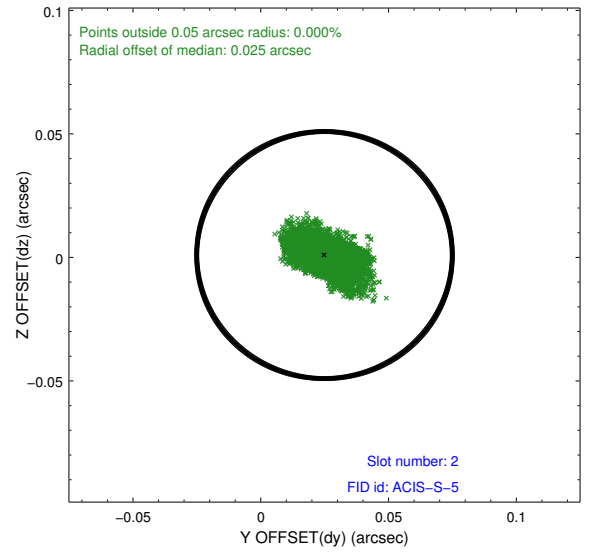
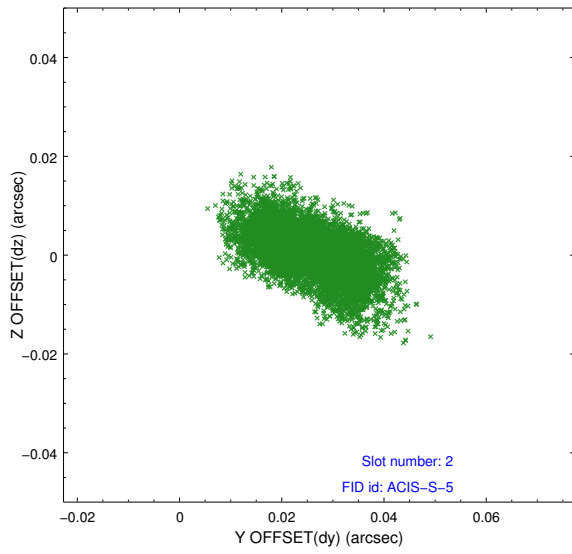
### 2.5.1 Slot 0



## 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)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.961

## A.2 Comments