

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5271 - L2 Version 3  
Chandra X-Ray Center

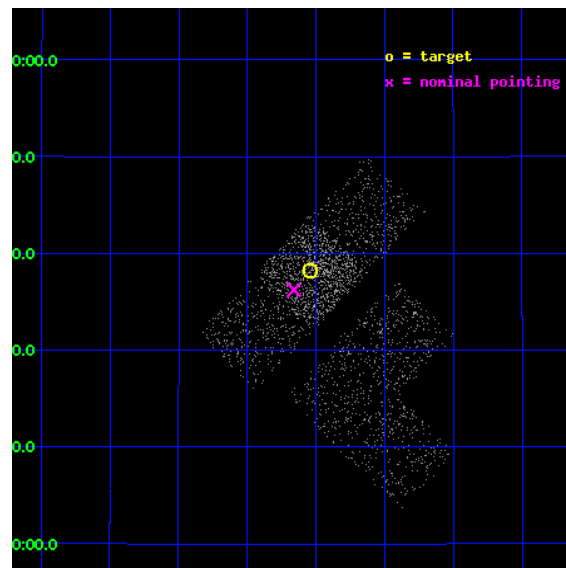
L2 Processing Date : Nov 8 2012

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# 1 Front

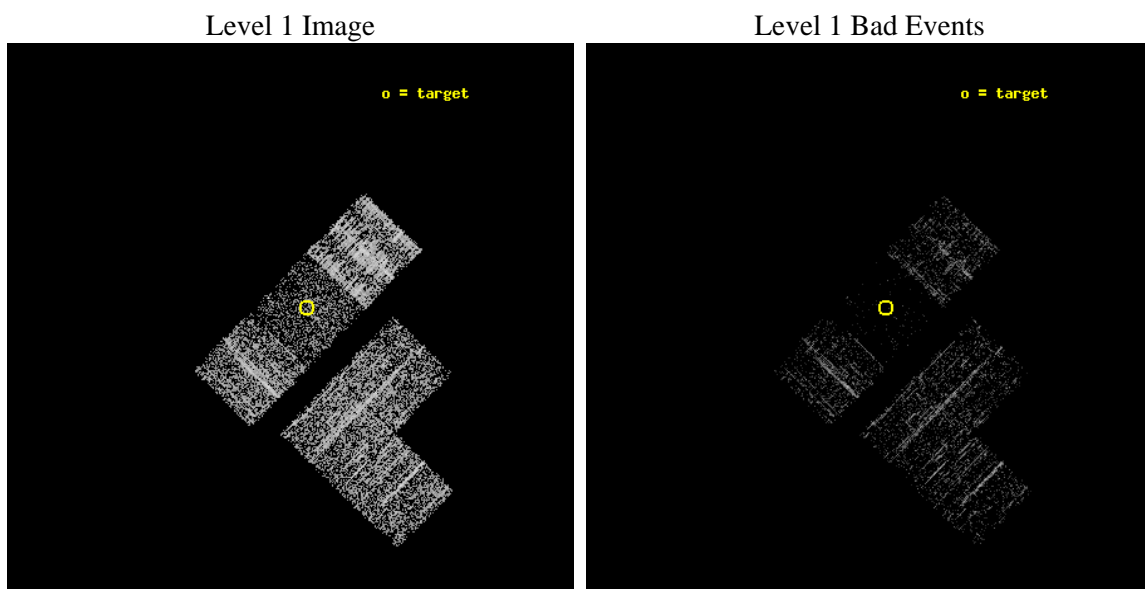
seq_num	100051	Sequence number
obs_id	5271	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.51018	Observer's specified target RA [deg]
dec_targ	16.63622	Observer's specified target Dec [deg]
ra_nom	287.54027632496	Nominal RA [deg]
dec_nom	16.604089048858	Nominal Dec [deg]
roll_nom	314.14806104163	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1468.7999945283	Sum of GTIs [s]
livetime	1450.2011645924	Livetime [s]
ontime0	1468.7999945283	Sum of GTIs [s]
ontime2	1468.7999945283	Sum of GTIs [s]
ontime3	1468.7999945283	Sum of GTIs [s]
ontime6	1468.7999945283	Sum of GTIs [s]
ontime7	1468.7999945283	Sum of GTIs [s]
ontime8	1468.7999945283	Sum of GTIs [s]
l2events	2819	Number of level 2 events



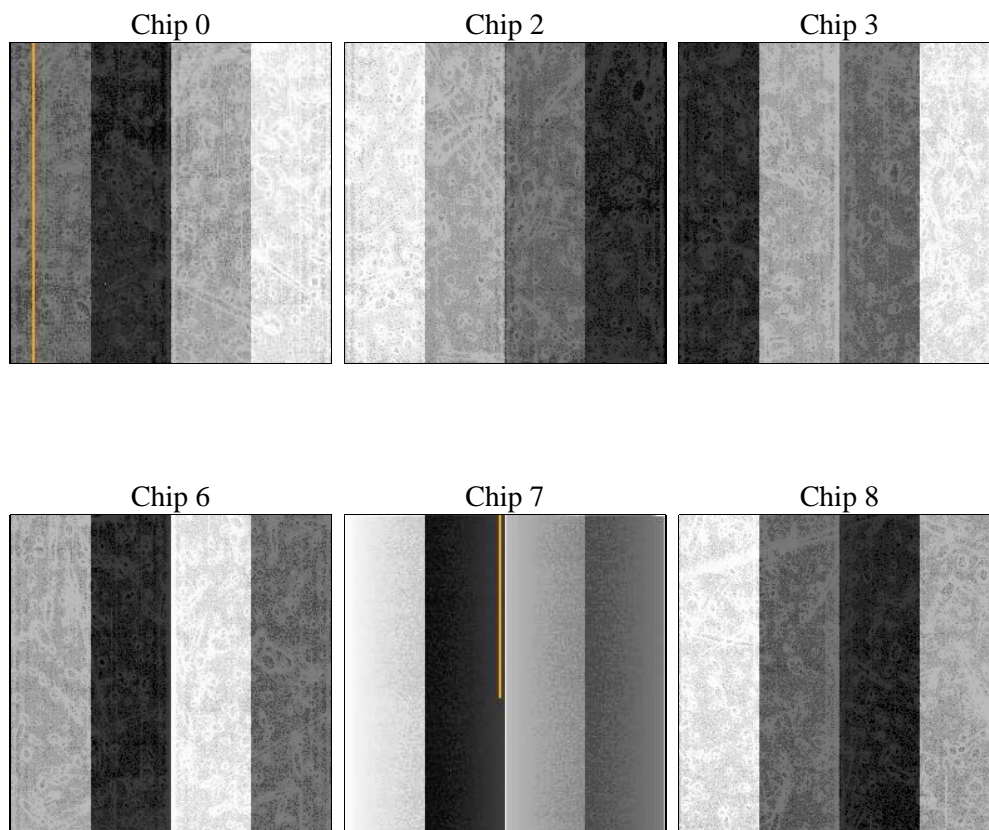
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1290.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1468.7999945283	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	1468.7999945283	Sum of GTIs [s]
date	2012-11-08T02:34:14	Date and time of file creation	ontime2	1468.7999945283	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1468.7999945283	Sum of GTIs [s]
			ontime6	1468.7999945283	Sum of GTIs [s]
			ontime7	1468.7999945283	Sum of GTIs [s]
			ontime8	1468.7999945283	Sum of GTIs [s]
			l1events	38776	Number of level 1 events

### 2.1.4 Events

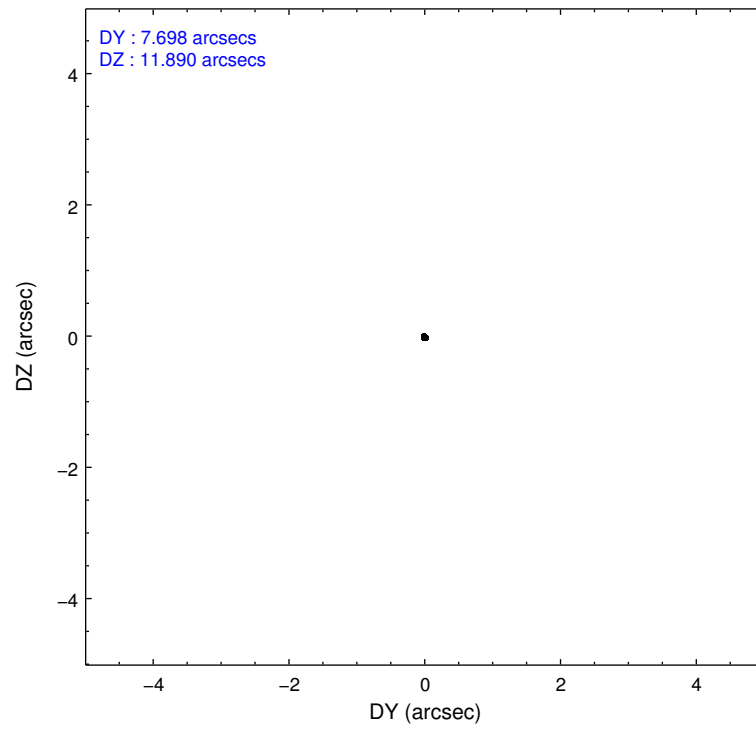
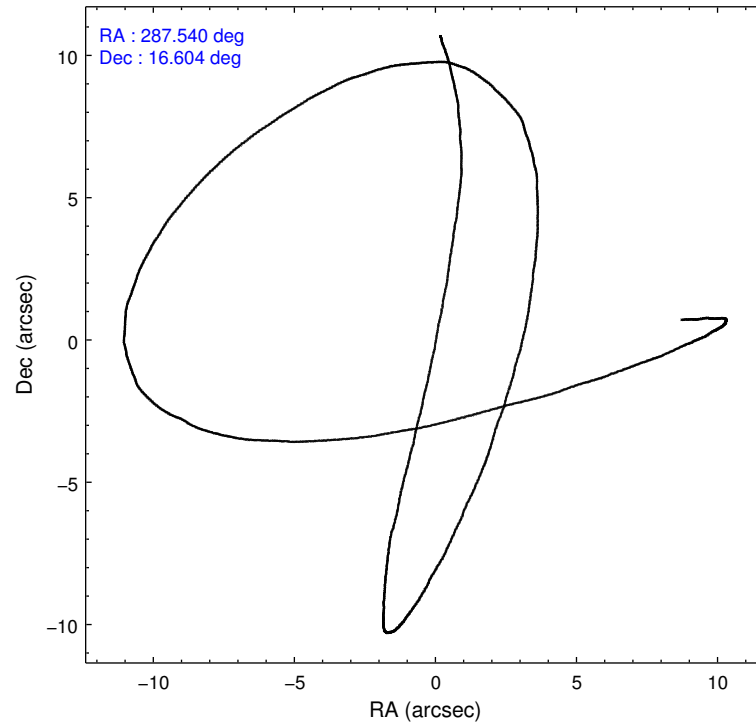
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6004	6568	6029	6257	2298	11620
rejected events	5587	6062	5629	5777	970	6931
rejected %	93%	92%	93%	92%	42%	59%

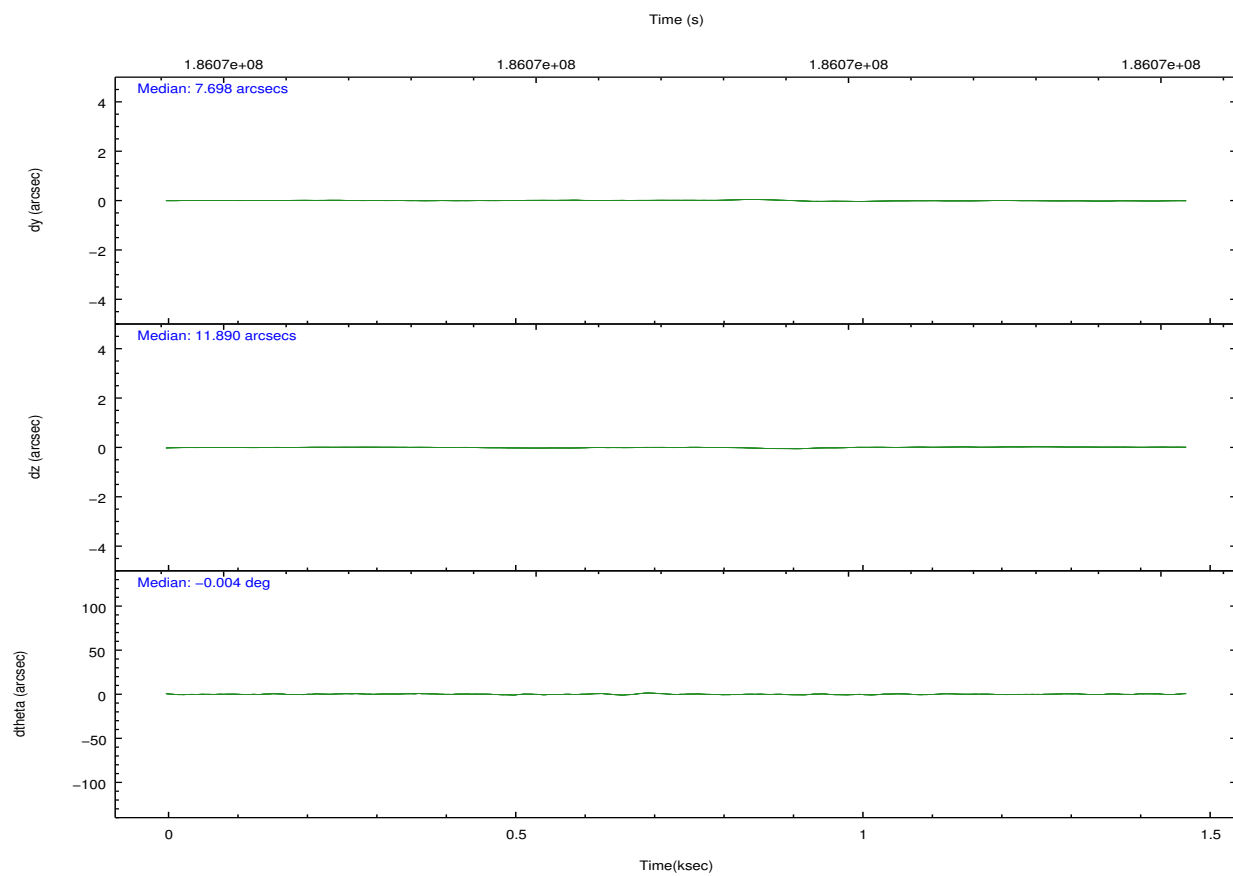
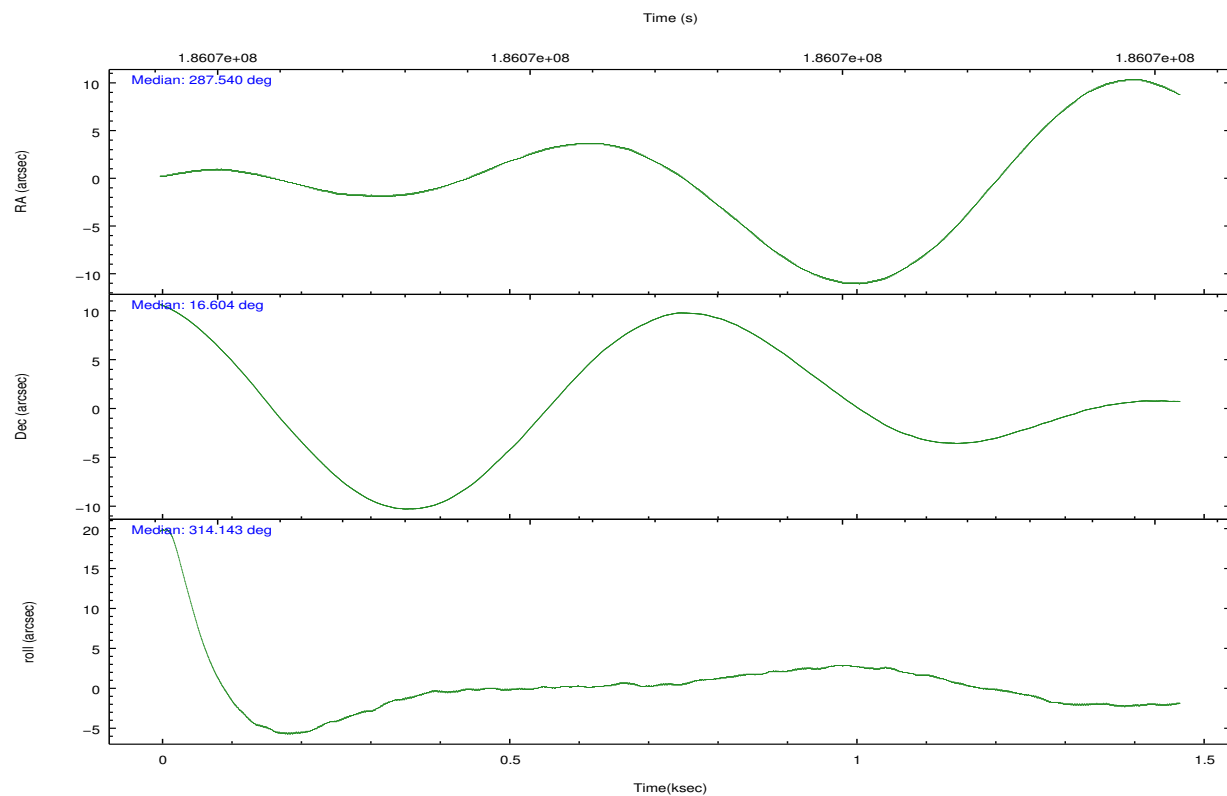
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	260	292	247	280	419	1672
	4%	4%	4%	4%	18%	14%
grade 1 events	2	1	1	2	6	15
	0%	0%	0%	0%	0%	0%
grade 2 events	130	177	80	154	411	921
	2%	2%	1%	2%	17%	7%
grade 3 events	50	50	56	55	180	1010
	0%	0%	0%	0%	7%	8%
grade 4 events	46	62	44	38	180	871
	0%	0%	0%	0%	7%	7%
grade 5 events	55	40	44	58	157	189
	0%	0%	0%	0%	6%	1%
grade 6 events	52	53	51	49	453	1375
	0%	0%	0%	0%	19%	11%
grade 7 events	5409	5893	5506	5621	492	5567
	90%	89%	91%	89%	21%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-023678	ACIS-023678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	287.512554	287.5402763249605	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.611310	16.60408904885765	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999313	314.1480610416289	[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)	186069664.184000	186069288.15759			
Observation start date	2003-11-24T14:00:00	2003-11-24T13:54:48			
[s] Observation end time (MET)	186070954.184000	186071088.05767			
Observation end date	2003-11-24T14:21:30	2003-11-24T14:24:48			
Read mode	TIMED	TIMED			

## 2.3 Aspect





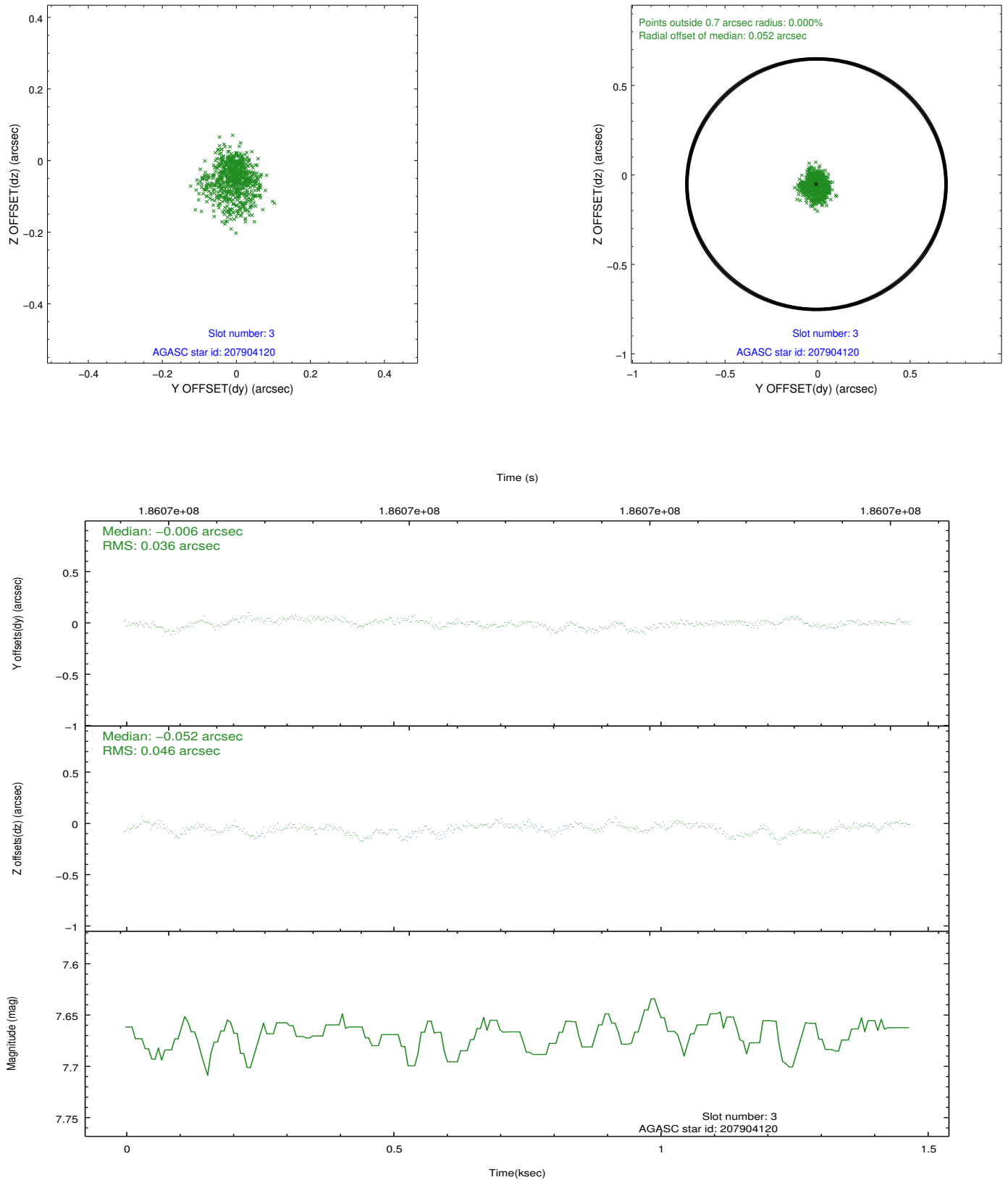
### Slot Statistics

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	359	-0.010	-0.007	0.006	0.012	0.000000	0.000000	-760.48	-1733.19
1	FID	ACIS-S-4	7.19	359	0.040	0.007	0.005	0.010	0.000000	0.000000	2150.80	170.64
2	FID	ACIS-S-5	7.23	359	-0.061	0.009	0.006	0.012	0.000000	0.000000	-1807.58	169.44
3	GUIDE	207904120	7.67	718	-0.006	-0.052	0.063	0.101	286.904195	16.289988	-631.06	-2313.81
4	GUIDE	207916440	6.85	718	-0.136	0.064	0.070	0.112	287.167522	16.851310	-1449.60	-258.06
5	GUIDE	208416976	8.35	718	-0.087	-0.060	0.098	0.159	287.326965	17.073967	-1644.89	696.81
6	GUIDE	209596088	9.37	718	0.200	0.106	0.099	0.157	288.150718	16.305149	2319.08	824.07
7	GUIDE	209585448	7.95	717	0.026	-0.066	0.077	0.111	288.114724	16.850123	823.78	2092.67

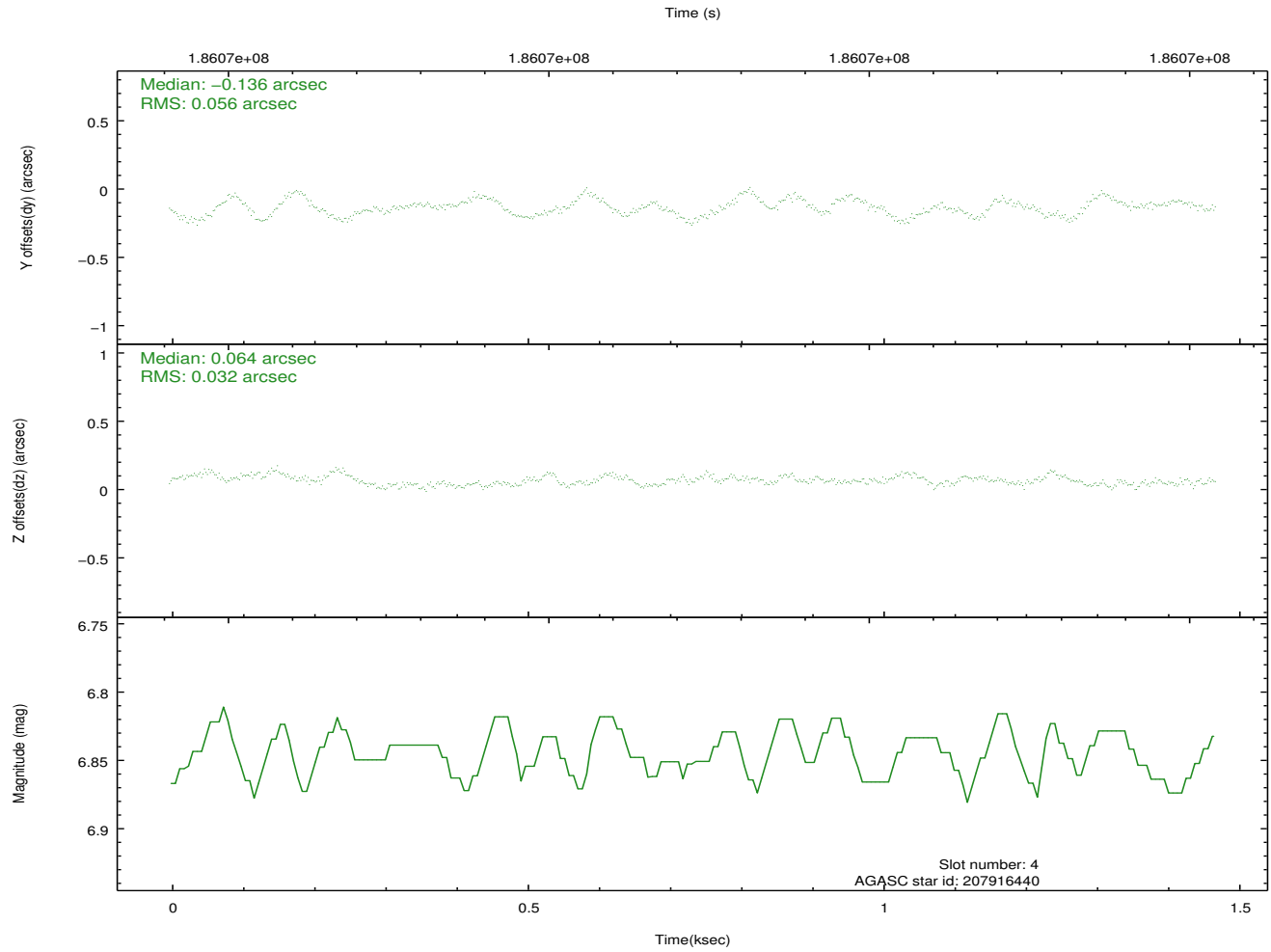
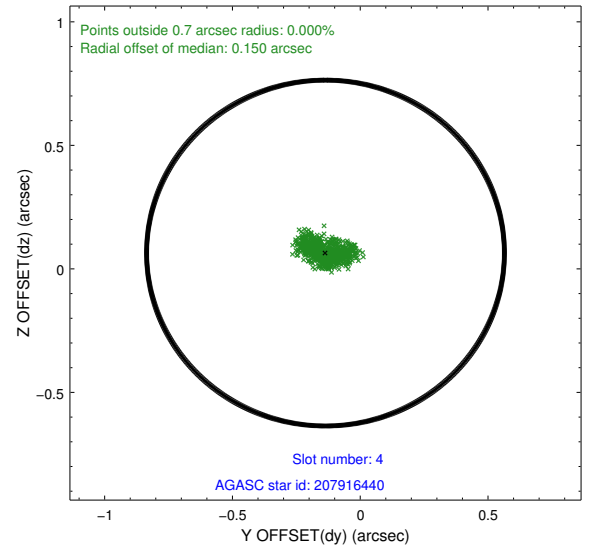
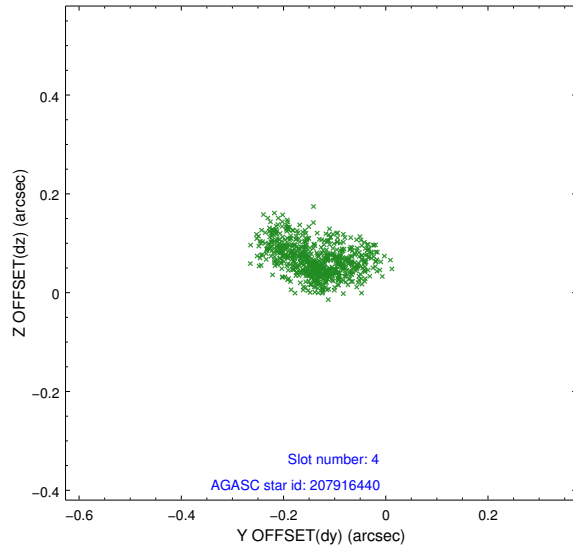


## 2.4 Star Slots

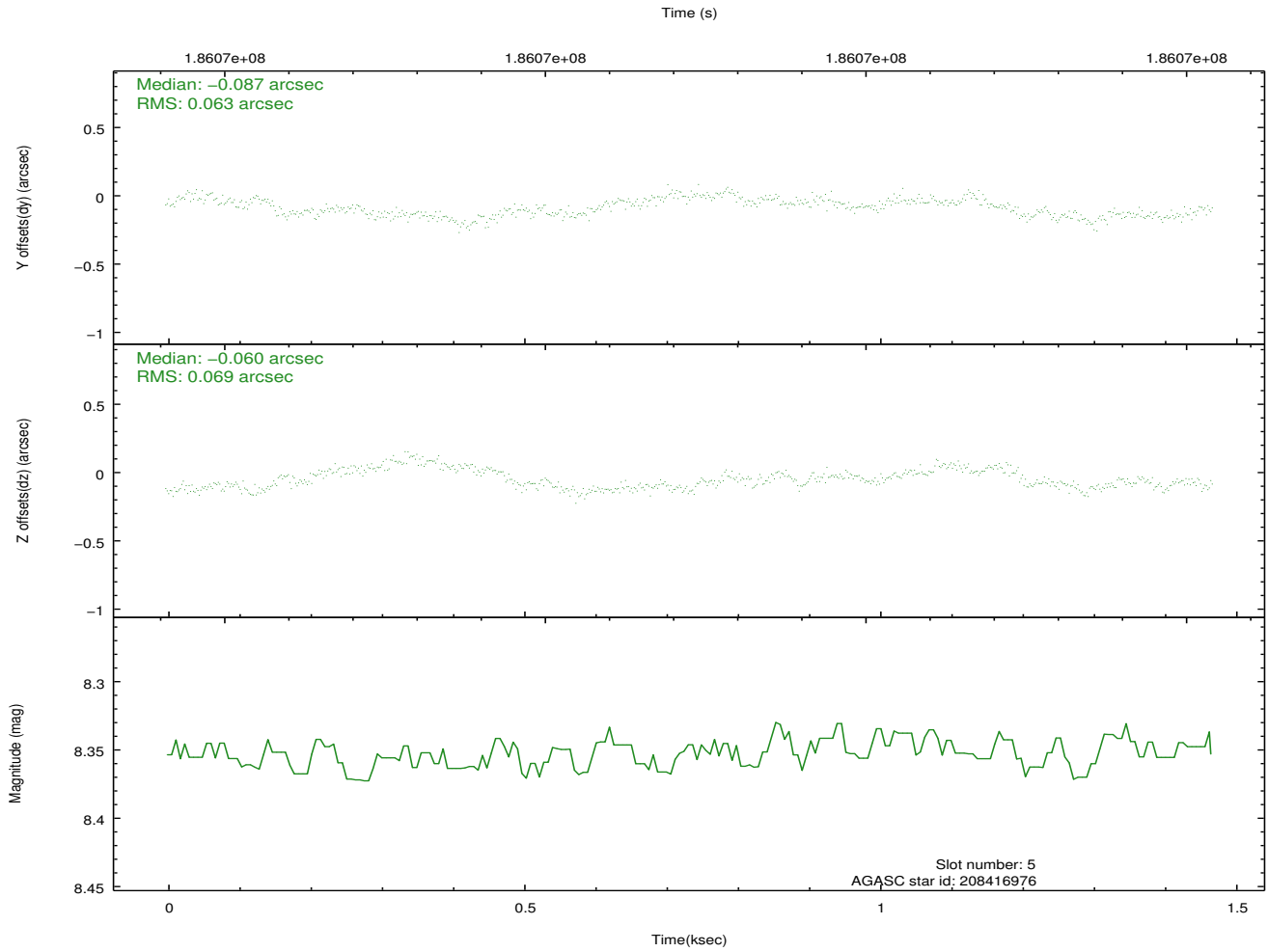
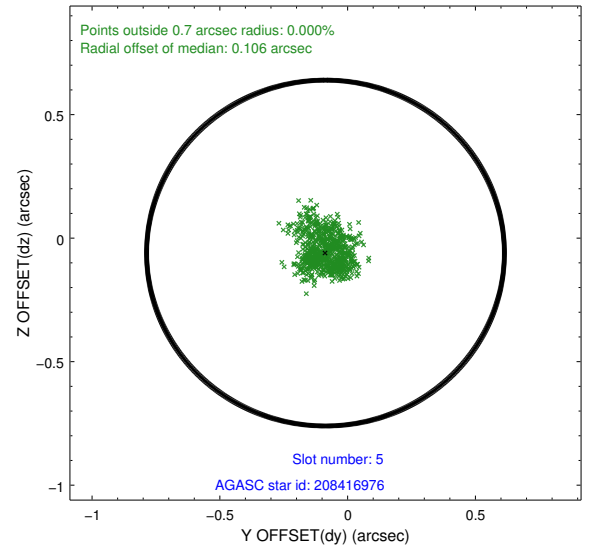
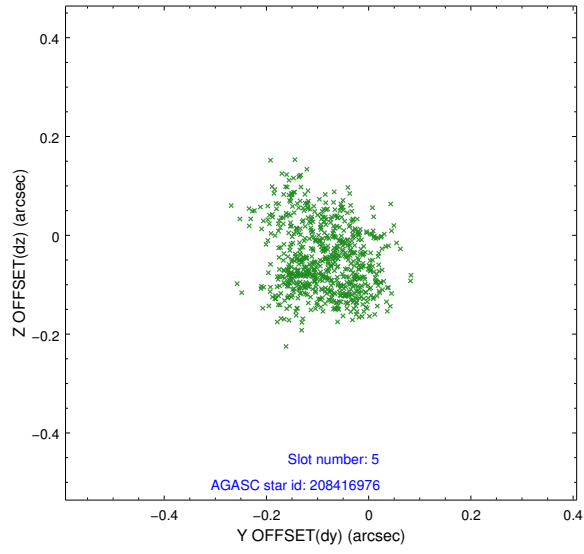
### 2.4.1 Slot 3



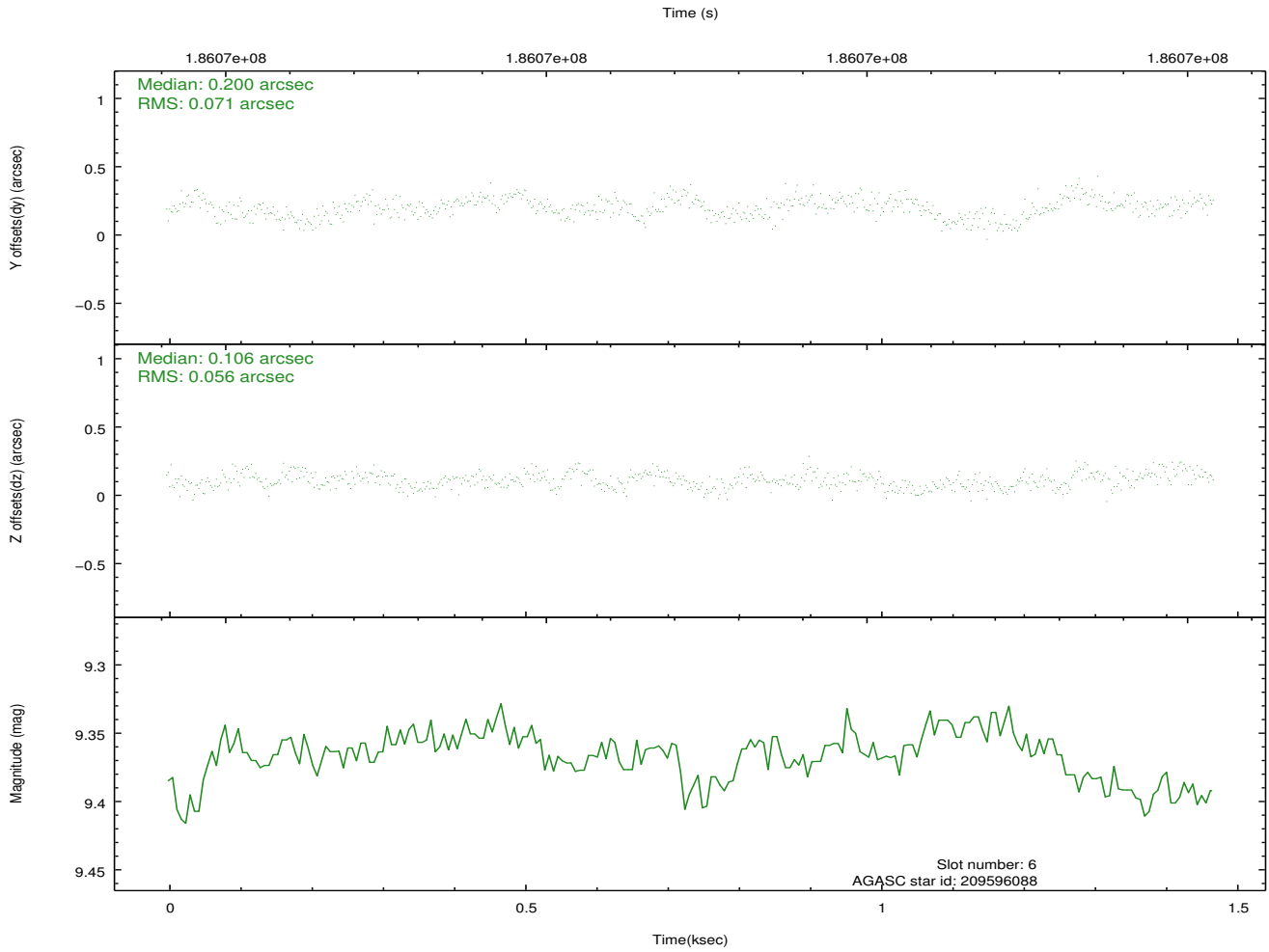
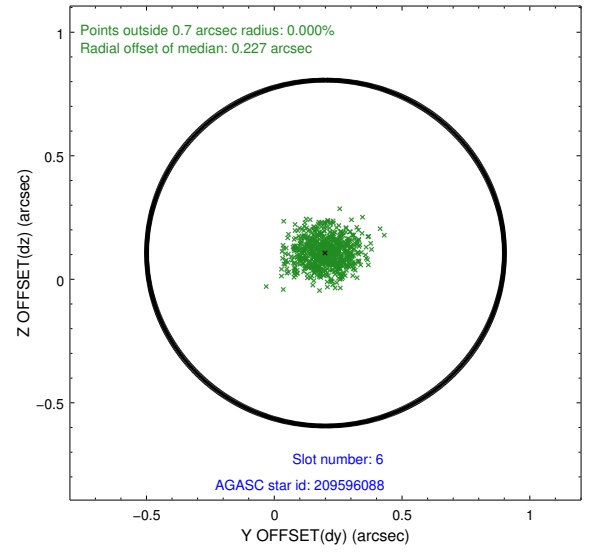
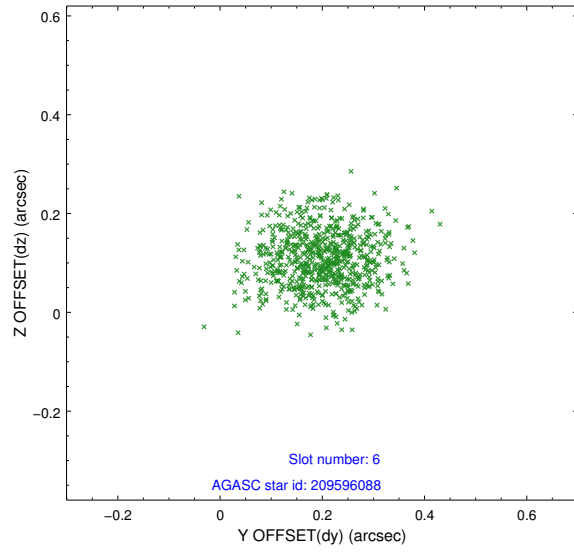
## 2.4.2 Slot 4



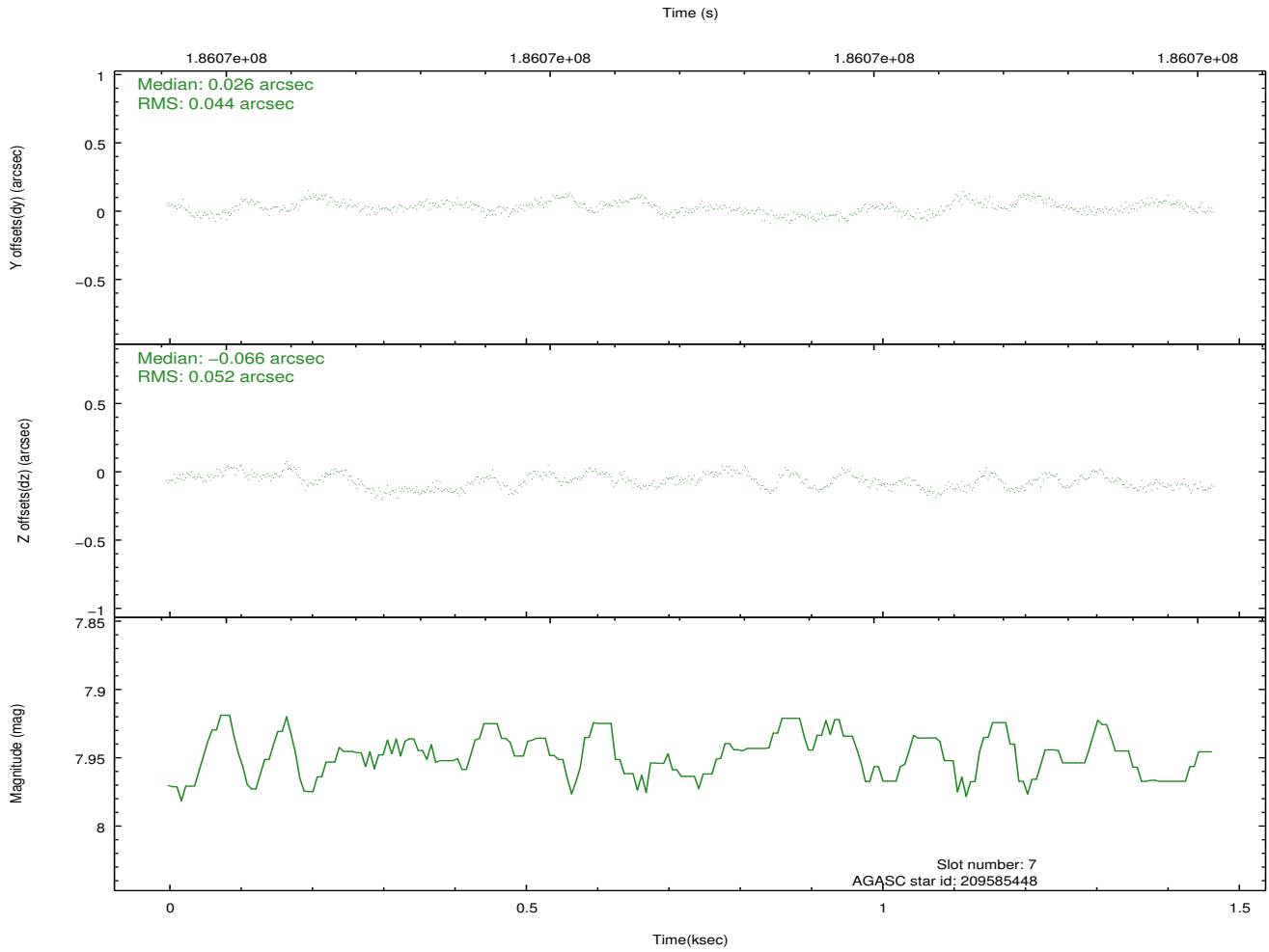
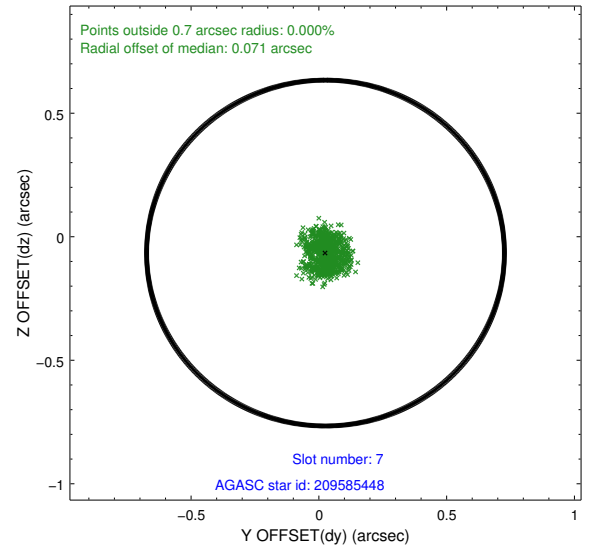
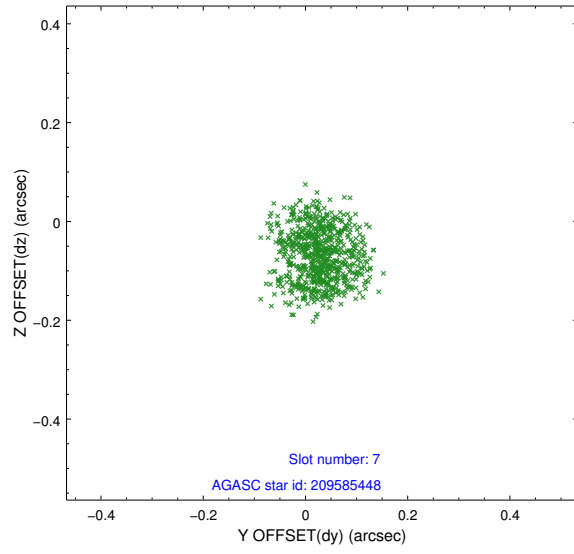
### 2.4.3 Slot 5



## 2.4.4 Slot 6

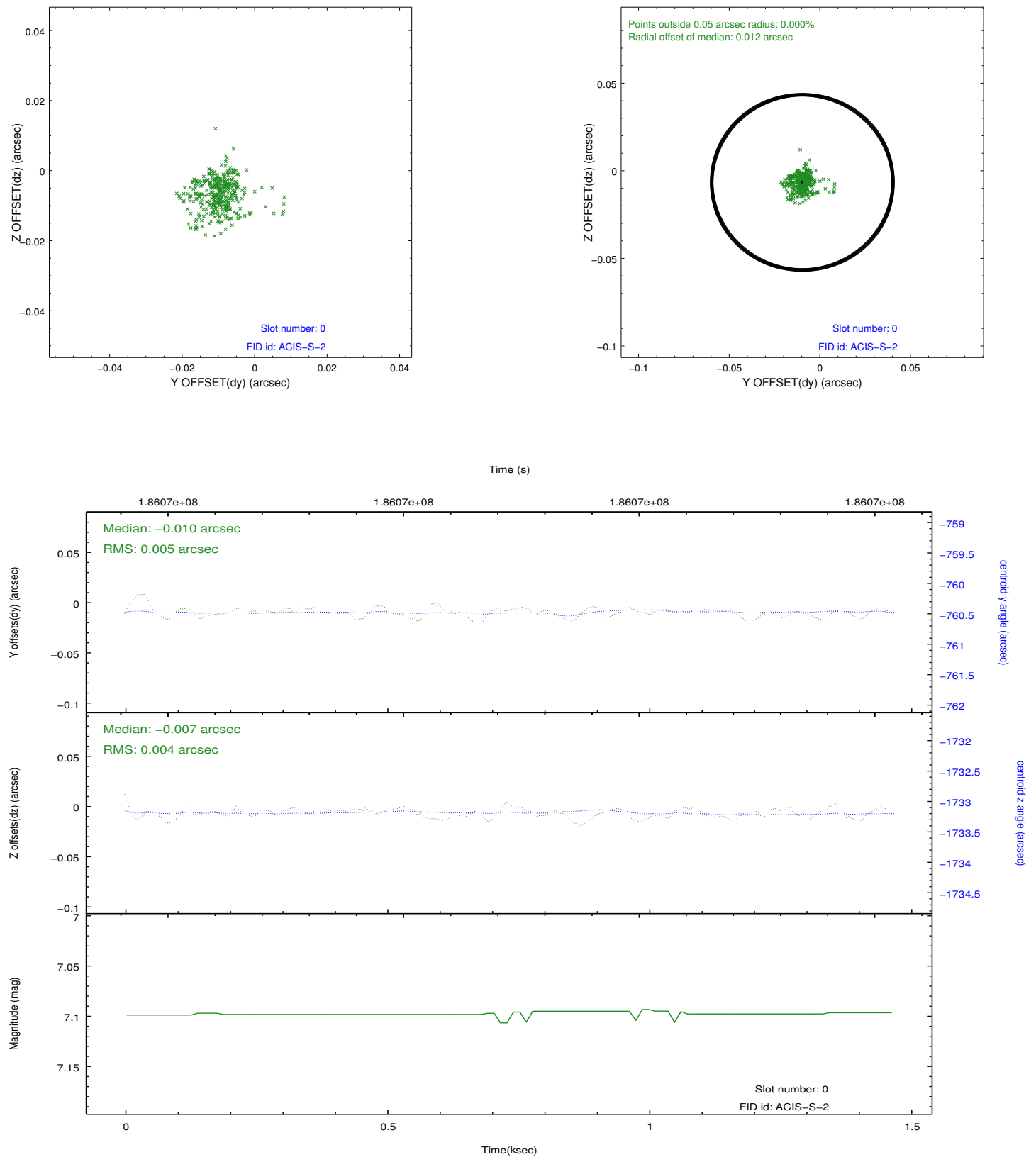


## 2.4.5 Slot 7

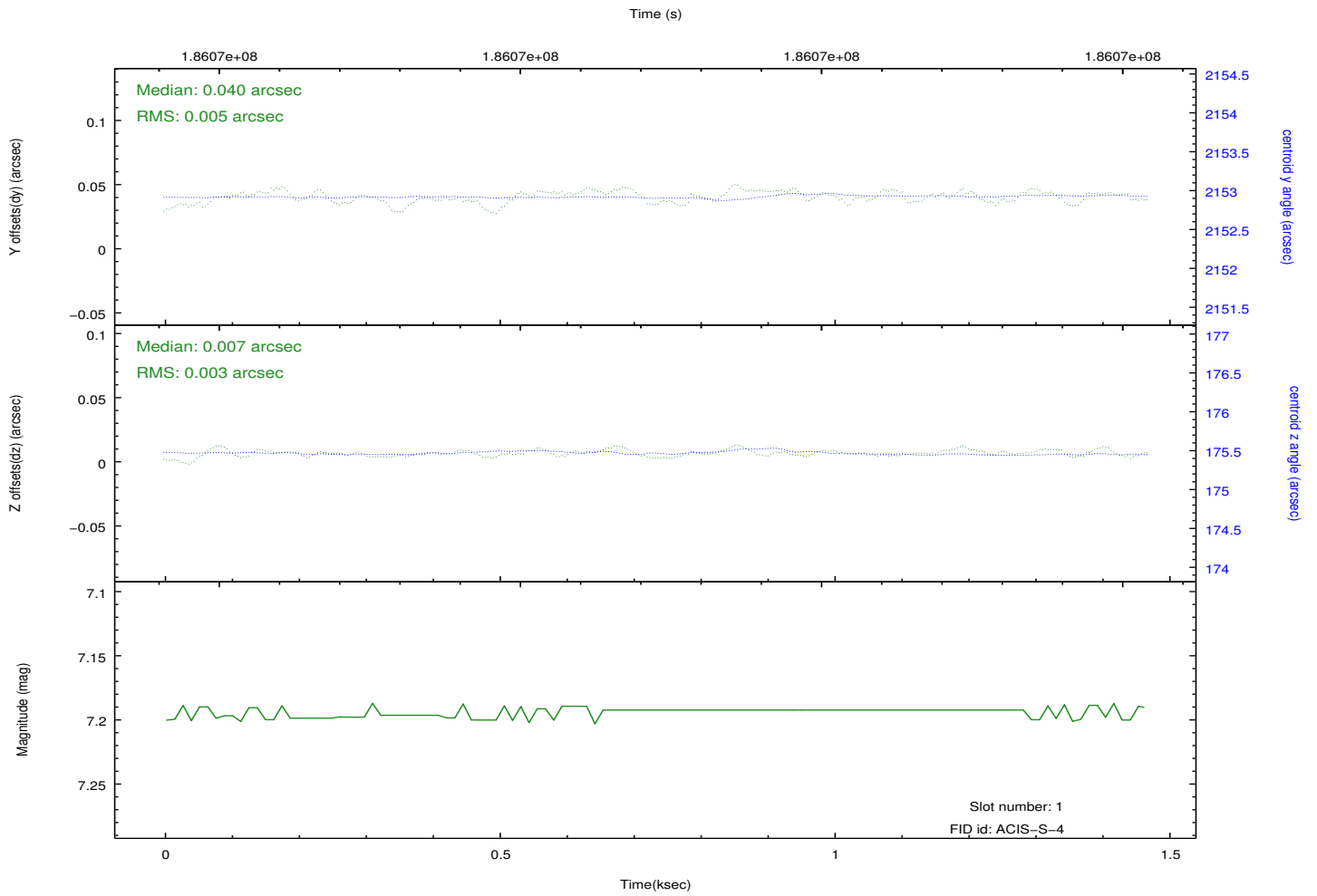
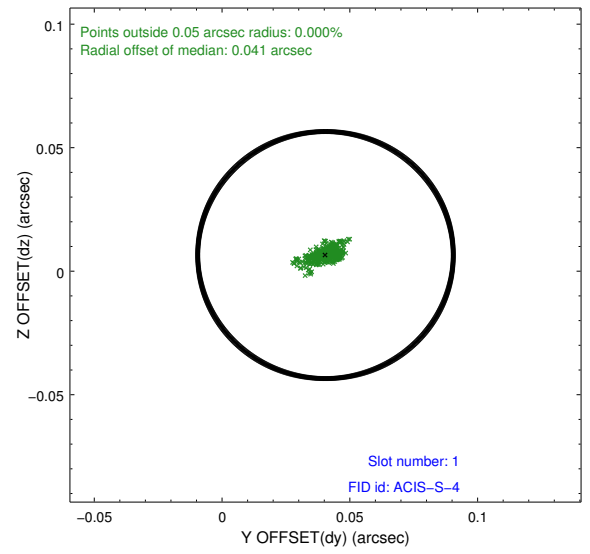
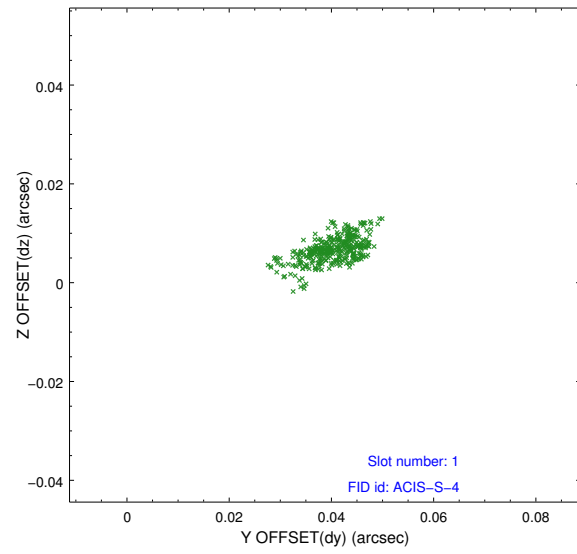


## 2.5 FID Slots

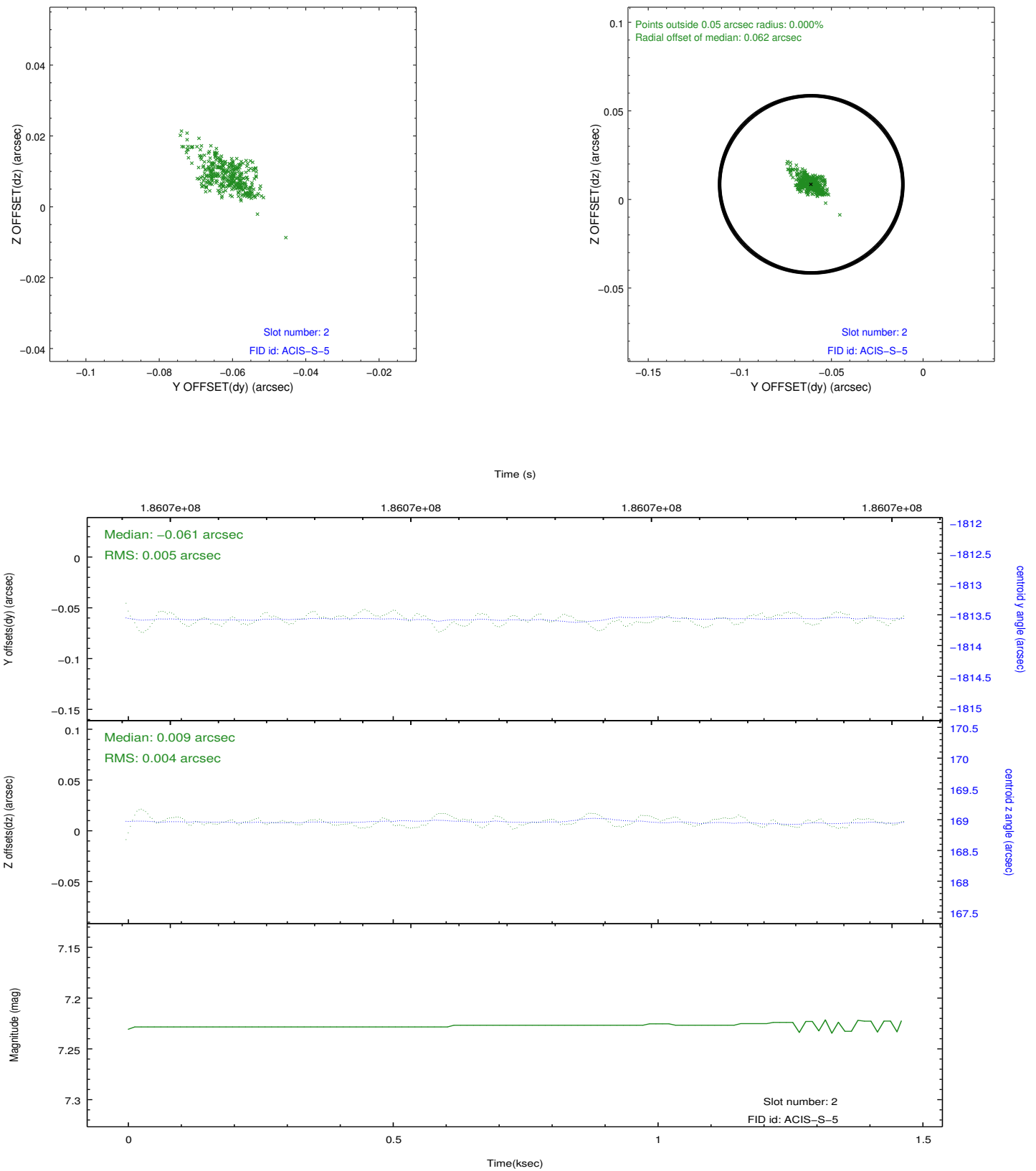
### 2.5.1 Slot 0



## 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)	2012.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.468

## A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.