

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6352 - L2 Version 3  
Chandra X-Ray Center

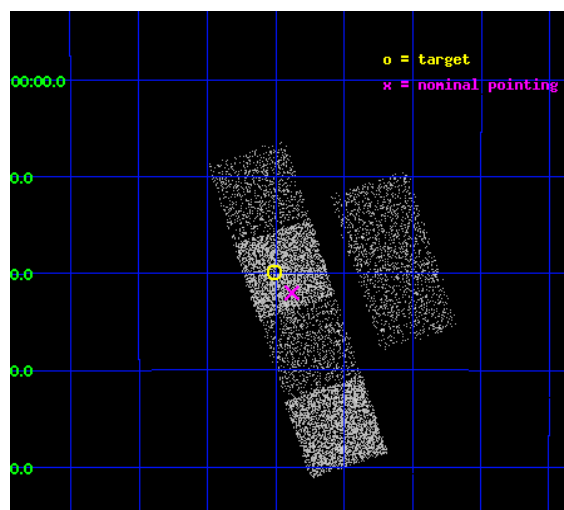
L2 Processing Date : Dec 26 2012

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# 1 Front

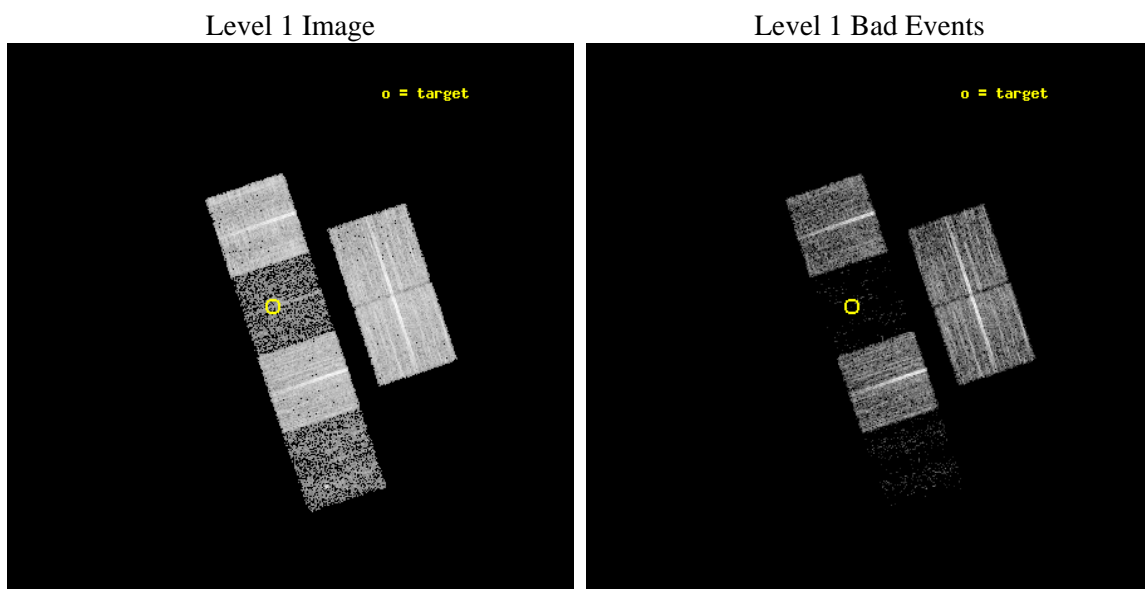
seq_num	100058	Sequence number
obs_id	6352	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	9P/Tempel 1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.128008	Observer's specified target RA [deg]
dec_targ	-17.332119	Observer's specified target Dec [deg]
ra_nom	215.09544177683	Nominal RA [deg]
dec_nom	-17.366922722076	Nominal Dec [deg]
roll_nom	251.54546595892	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8175.999969542	Sum of GTIs [s]
livetime	8072.4705349315	Livetime [s]
ontime2	8175.999969542	Sum of GTIs [s]
ontime3	8175.999969542	Sum of GTIs [s]
ontime5	8175.999969542	Sum of GTIs [s]
ontime6	8175.999969542	Sum of GTIs [s]
ontime7	8175.999969542	Sum of GTIs [s]
ontime8	8175.999969542	Sum of GTIs [s]
l2events	11540	Number of level 2 events



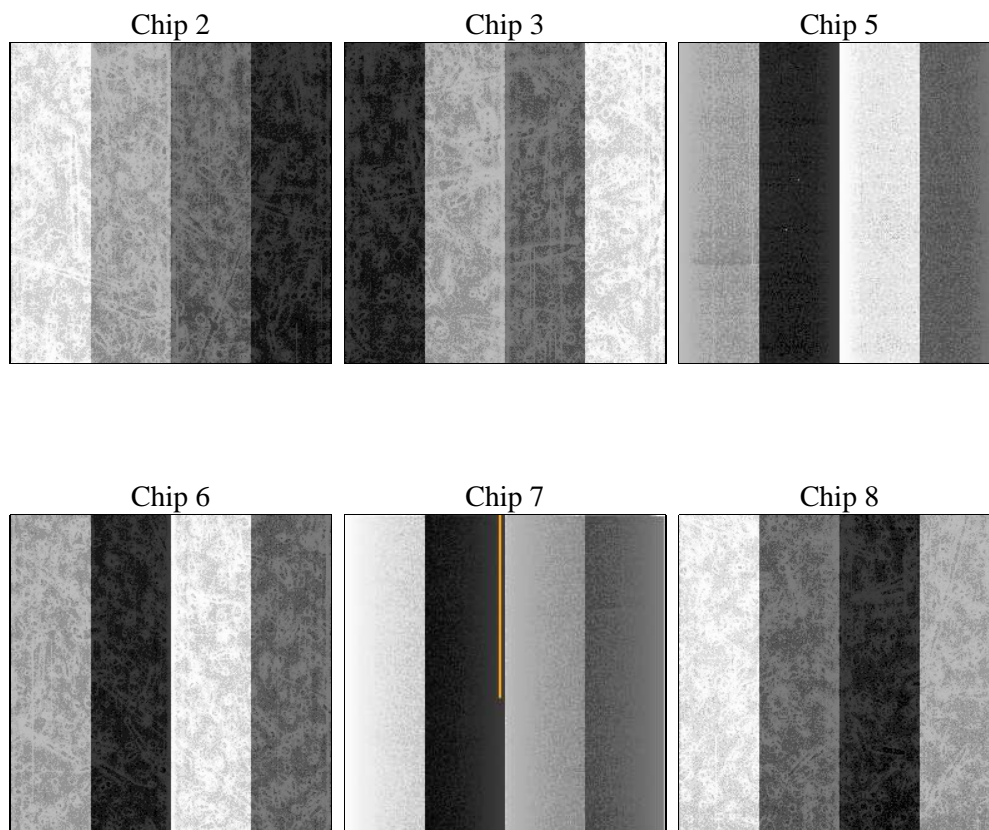
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8175.999969542	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	8175.999969542	Sum of GTIs [s]
date	2012-12-26T15:04:36	Date and time of file creation	ontime3	8175.999969542	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	8175.999969542	Sum of GTIs [s]
			ontime6	8175.999969542	Sum of GTIs [s]
			ontime7	8175.999969542	Sum of GTIs [s]
			ontime8	8175.999969542	Sum of GTIs [s]
			l1events	169705	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43913	37083	6419	36588	5346	40356
rejected events	42230	35783	2141	35046	1197	30559
rejected %	96%	96%	33%	95%	22%	75%

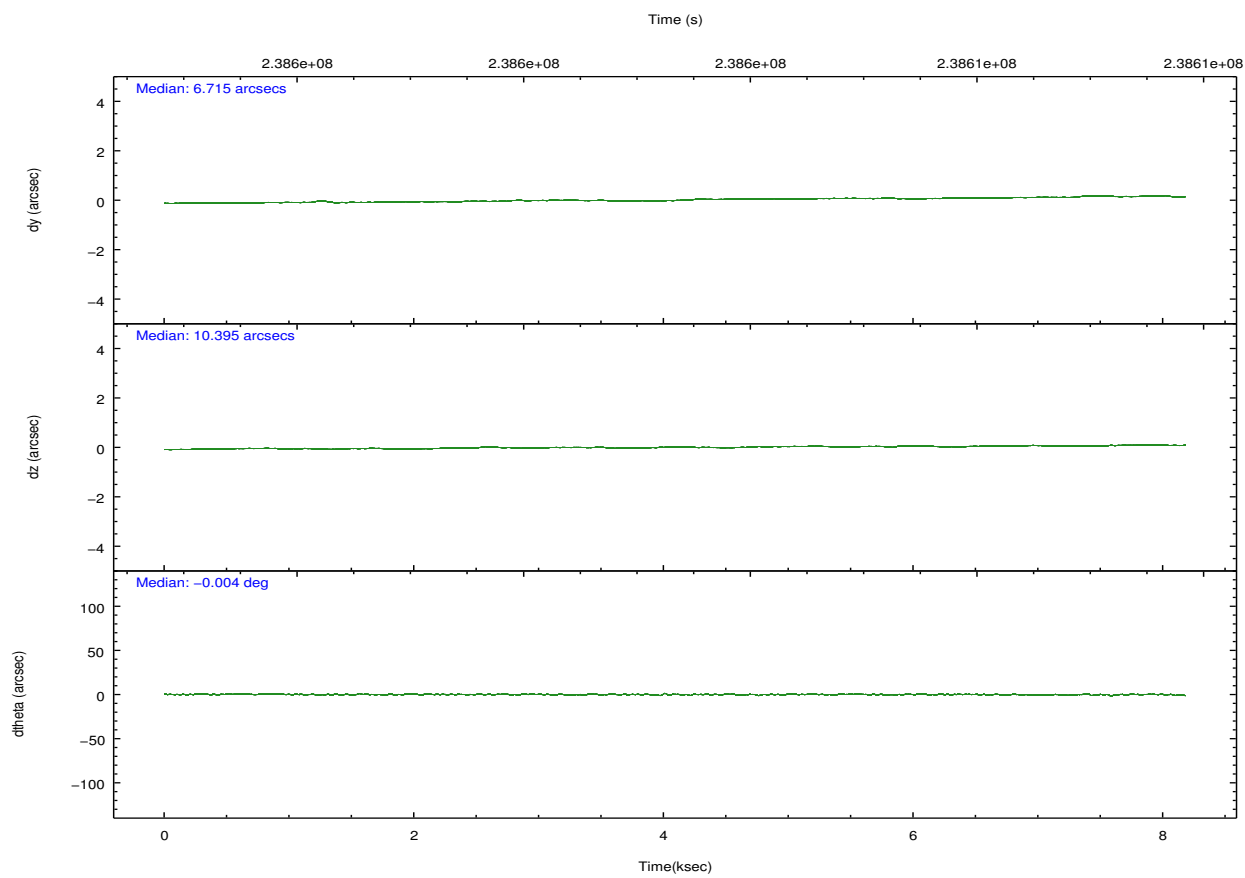
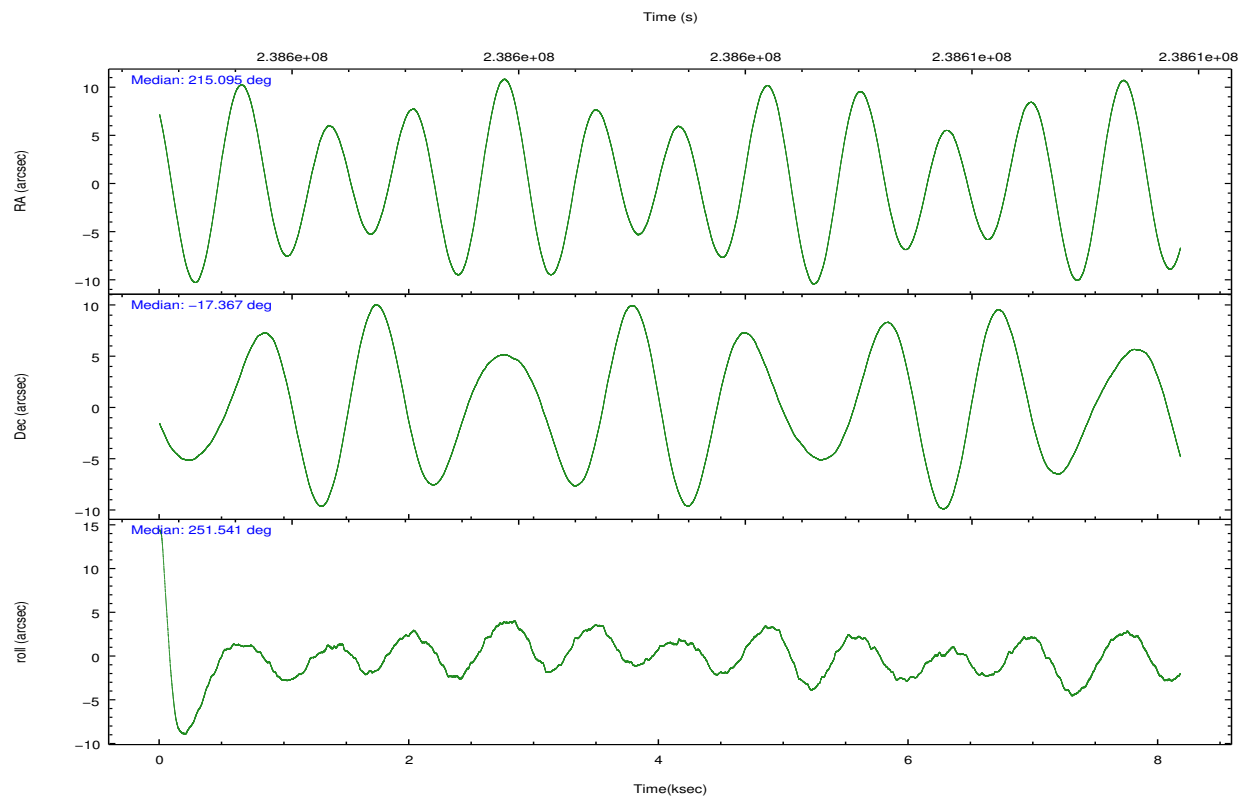
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	717	632	1213	768	1249	2702
	1%	1%	18%	2%	23%	6%
grade 1 events	8	8	40	8	22	20
	0%	0%	0%	0%	0%	0%
grade 2 events	411	156	1574	297	1340	2263
	0%	0%	24%	0%	25%	5%
grade 3 events	195	225	561	216	593	1154
	0%	0%	8%	0%	11%	2%
grade 4 events	254	186	559	210	583	956
	0%	0%	8%	0%	10%	2%
grade 5 events	44	34	355	24	134	207
	0%	0%	5%	0%	2%	0%
grade 6 events	146	126	478	92	507	2955
	0%	0%	7%	0%	9%	7%
grade 7 events	42138	35716	1639	34973	918	30099
	95%	96%	25%	95%	17%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	215.089396	215.0954417768315	Subarray requested	NONE	NONE
[deg] Pointing Dec	-17.340296	-17.36692272207587	Alternating exposures requested	N	N
[deg] Pointing Roll	251.387040	251.5454659589164	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	238572064.184000	238572064.184000			
[s] Window stop time (MET)	238615264.184000	238615264.184000			
[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)	238599432.184000	238599055.79012			
Observation start date	2005-07-24T13:36:08	2005-07-24T13:30:55			
[s] Observation end time (MET)	238607432.184000	238608062.46553			
Observation end date	2005-07-24T15:49:28	2005-07-24T16:01:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect

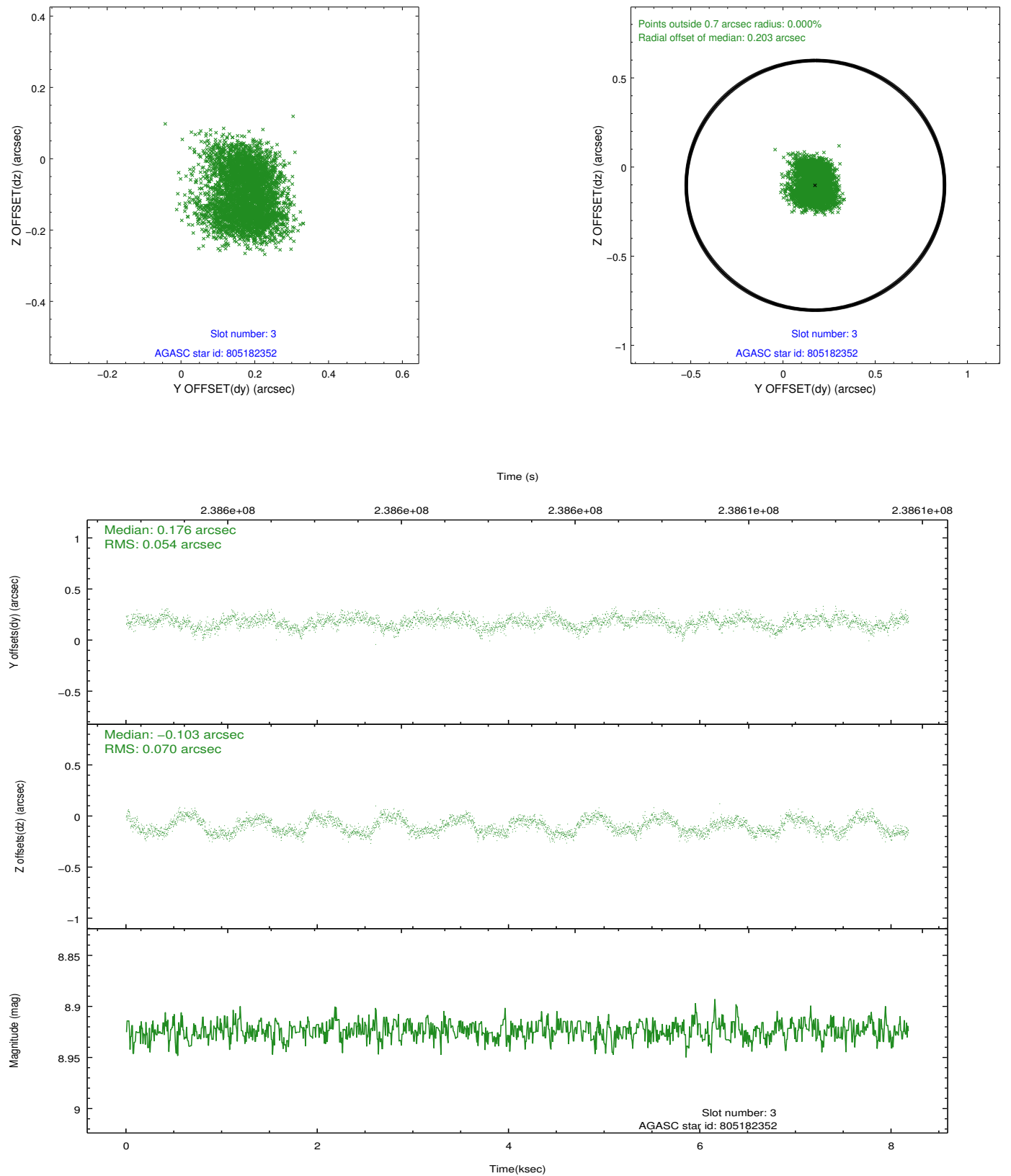


### Slot Statistics

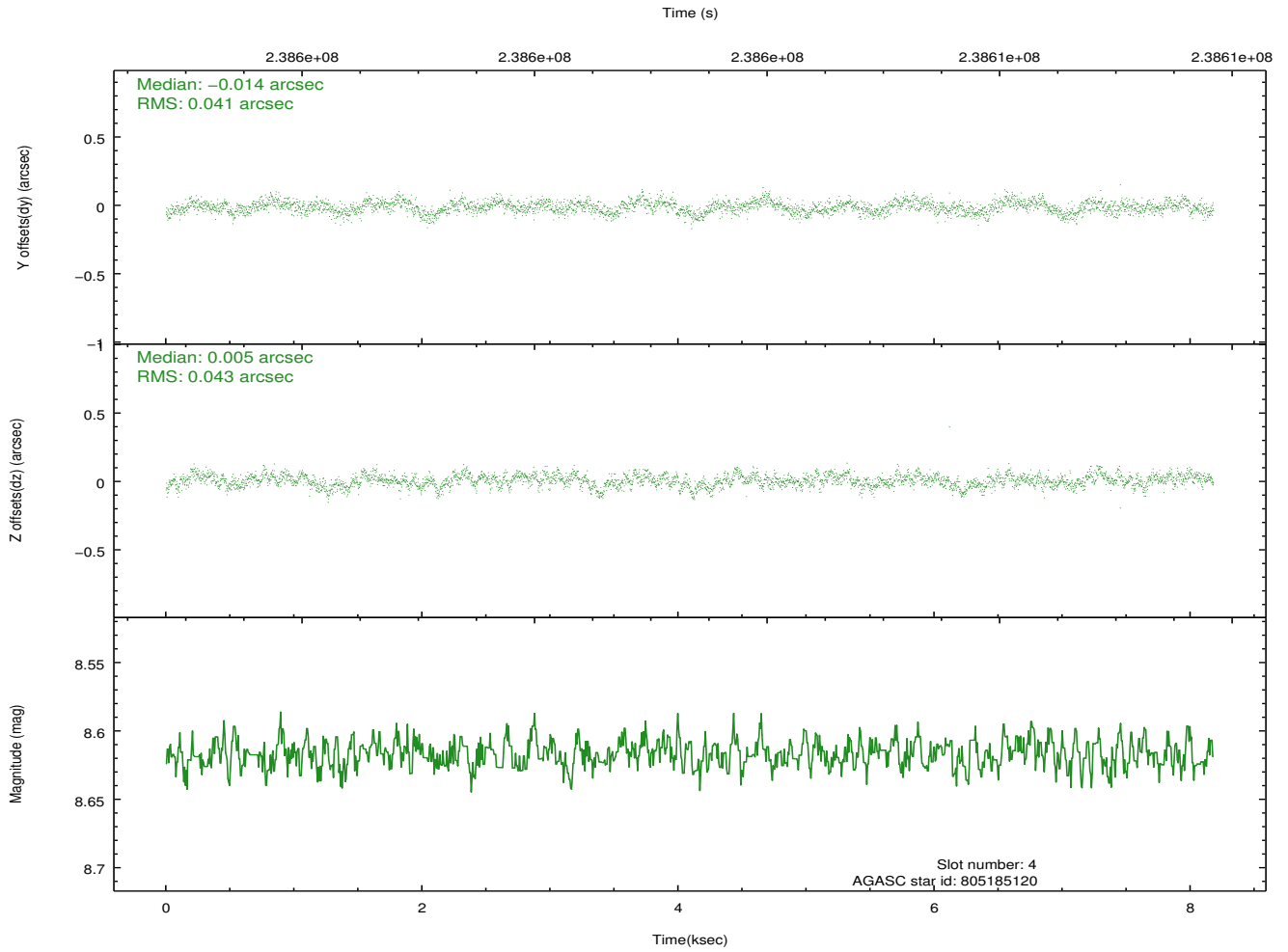
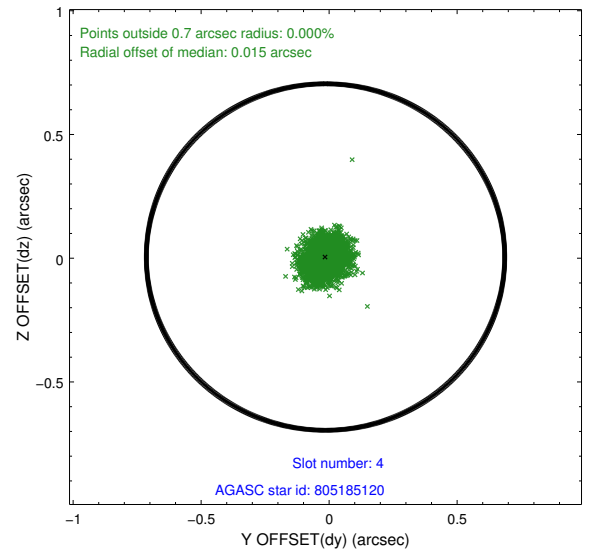
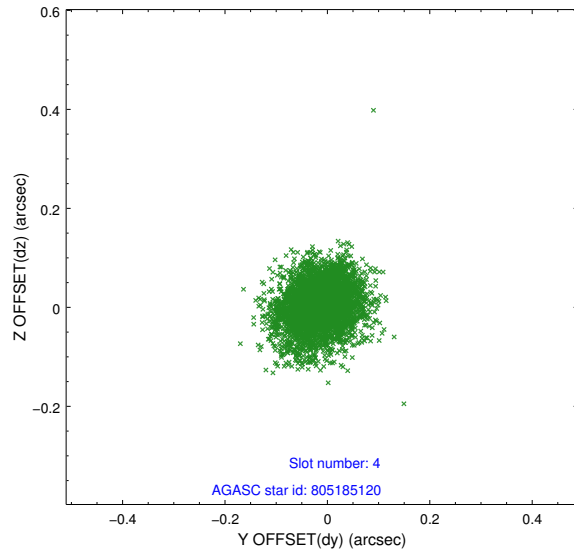
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1995	0.011	-0.042	0.009	0.014	0.000000	0.000000	936.54	-1727.34
1	FID	ACIS-S-2	7.10	1995	-0.090	-0.025	0.007	0.011	0.000000	0.000000	-759.08	-1732.55
2	FID	ACIS-S-4	7.20	1995	0.053	0.072	0.006	0.010	0.000000	0.000000	2153.55	176.21
3	GUIDE	805182352	8.92	3987	0.176	-0.103	0.096	0.145	214.624580	-17.686015	1690.63	-1112.71
4	GUIDE	805185120	8.62	3989	-0.014	0.005	0.064	0.105	215.253528	-17.793163	1366.34	1053.73
5	GUIDE	805187072	8.72	3989	-0.143	-0.021	0.055	0.087	215.513645	-17.149952	-1113.39	1165.33
6	GUIDE	805188160	8.97	3991	-0.084	-0.164	0.077	0.121	215.356854	-16.987214	-1498.13	467.51
7	GUIDE	804653008	9.17	3989	0.069	0.283	0.075	0.121	214.804962	-16.573506	-2302.07	-1810.55

## 2.4 Star Slots

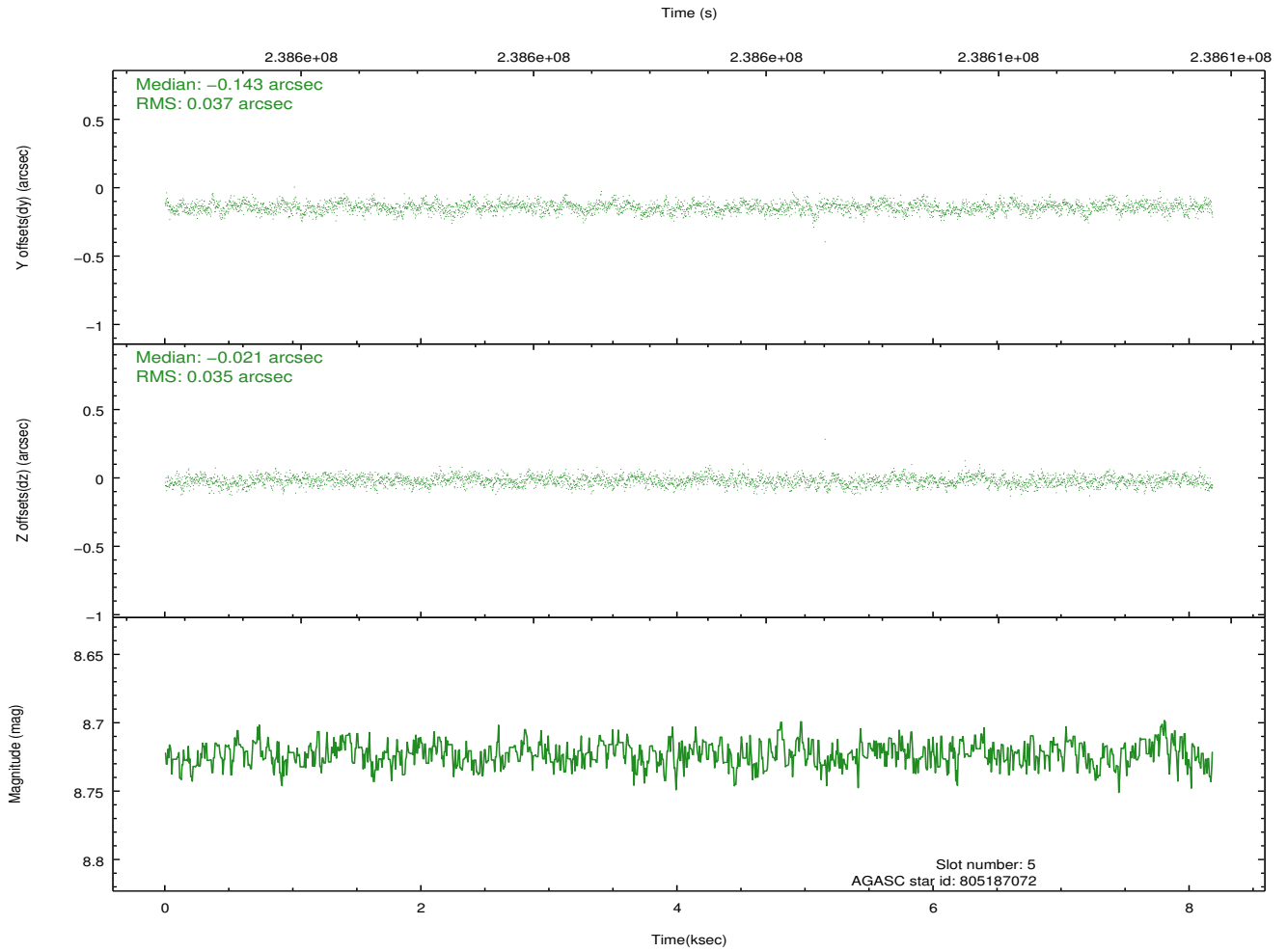
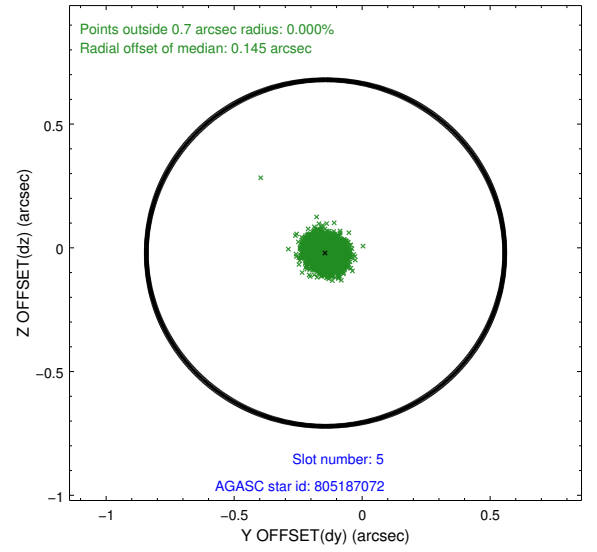
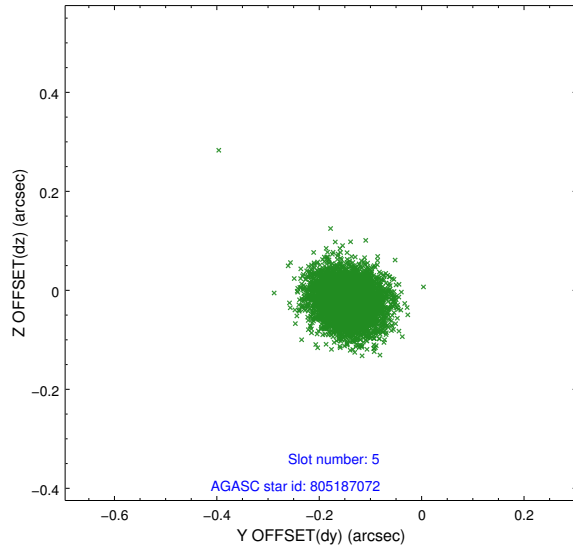
### 2.4.1 Slot 3



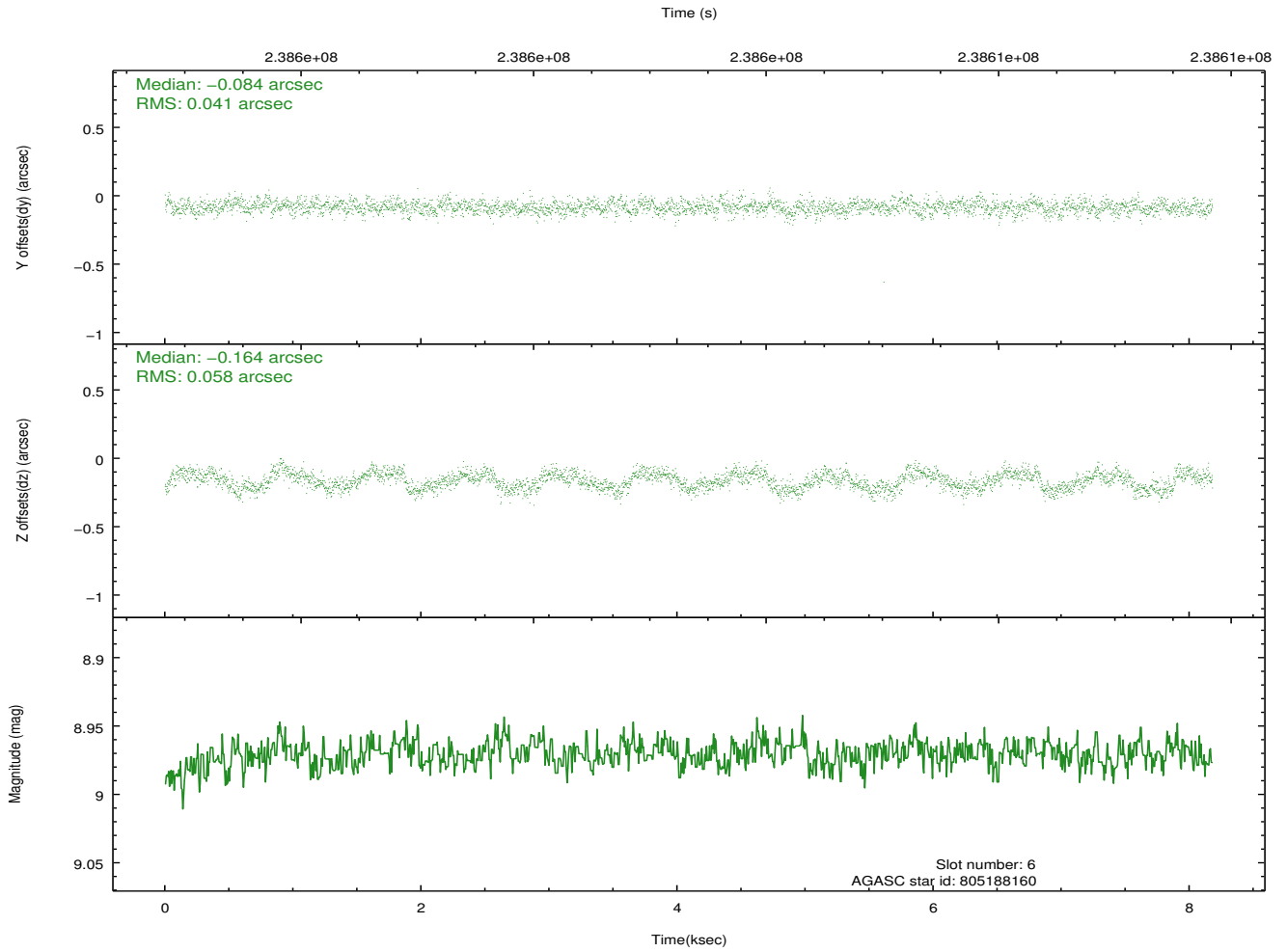
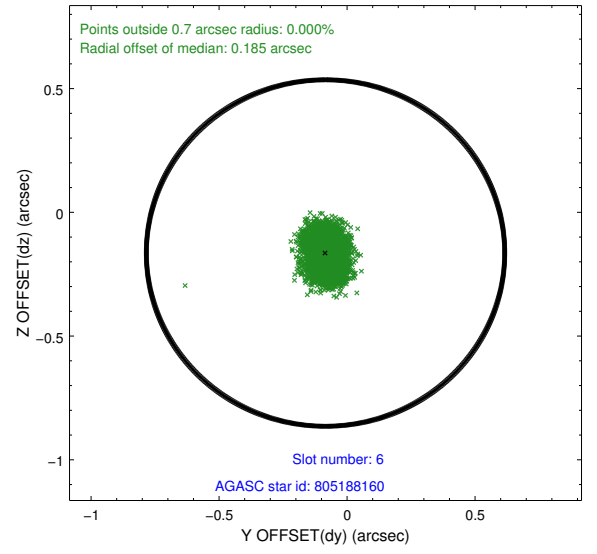
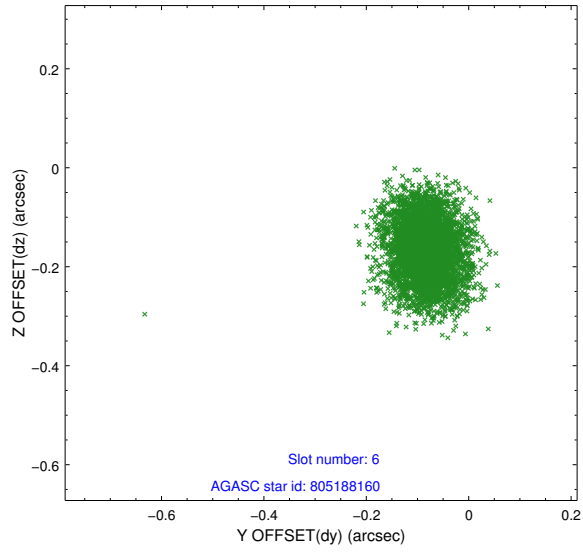
## 2.4.2 Slot 4



### 2.4.3 Slot 5

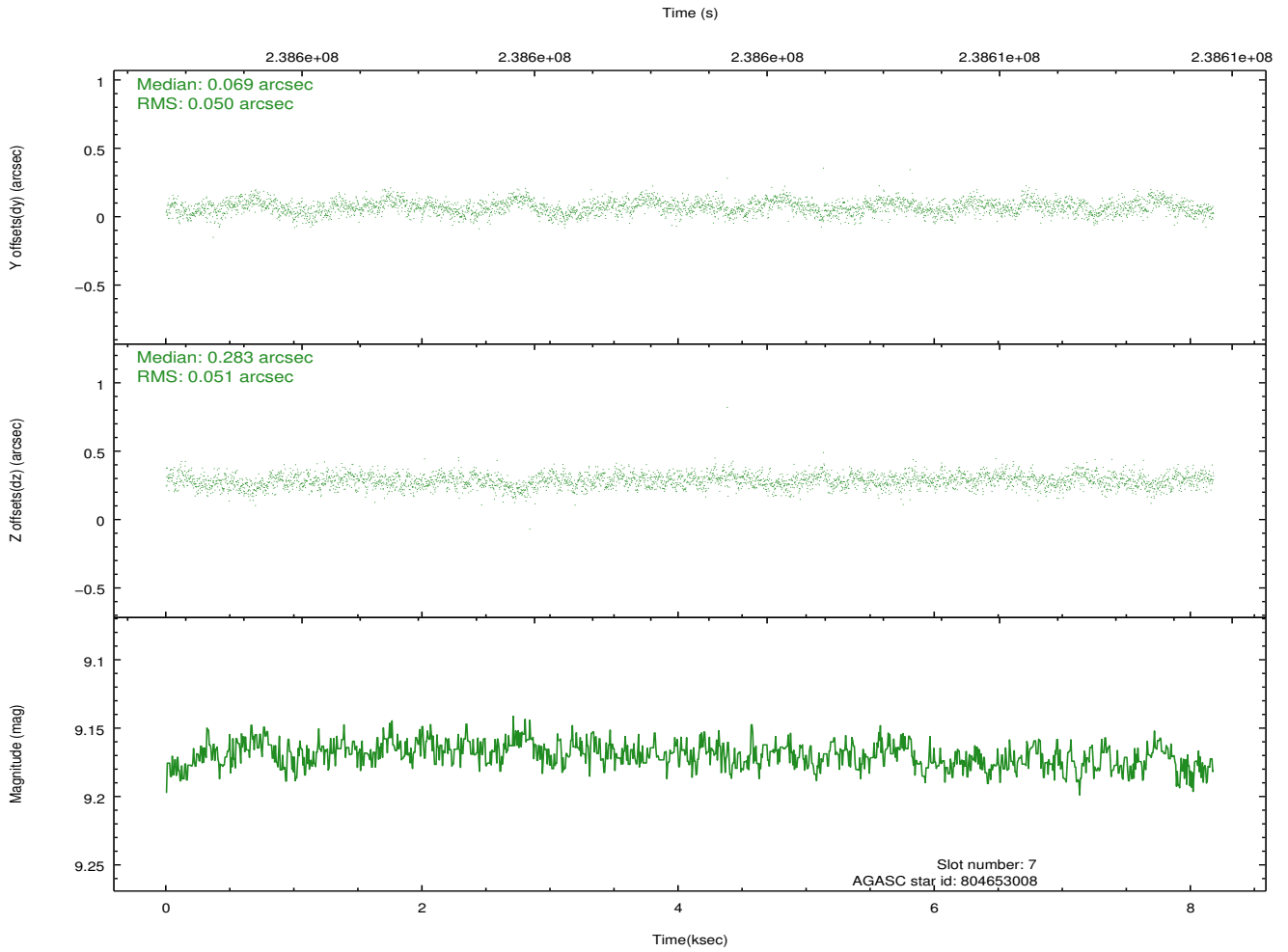
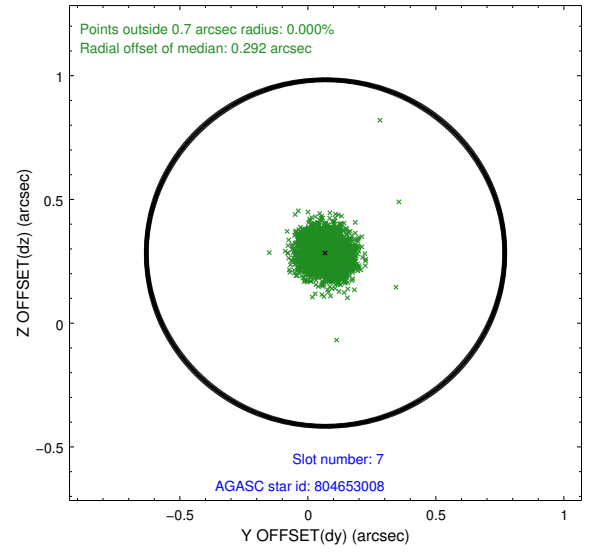
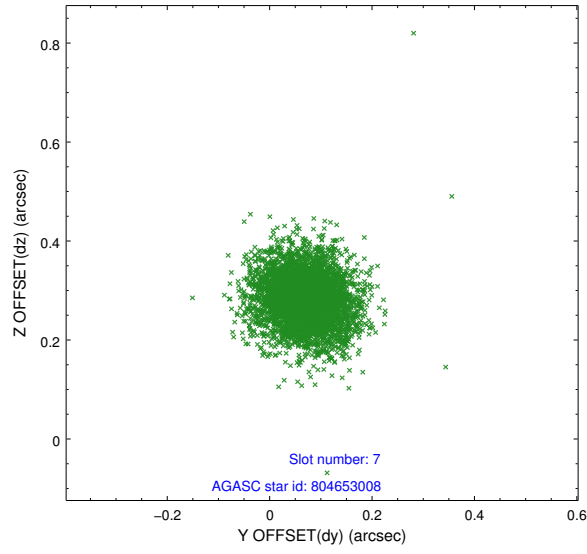


## 2.4.4 Slot 6



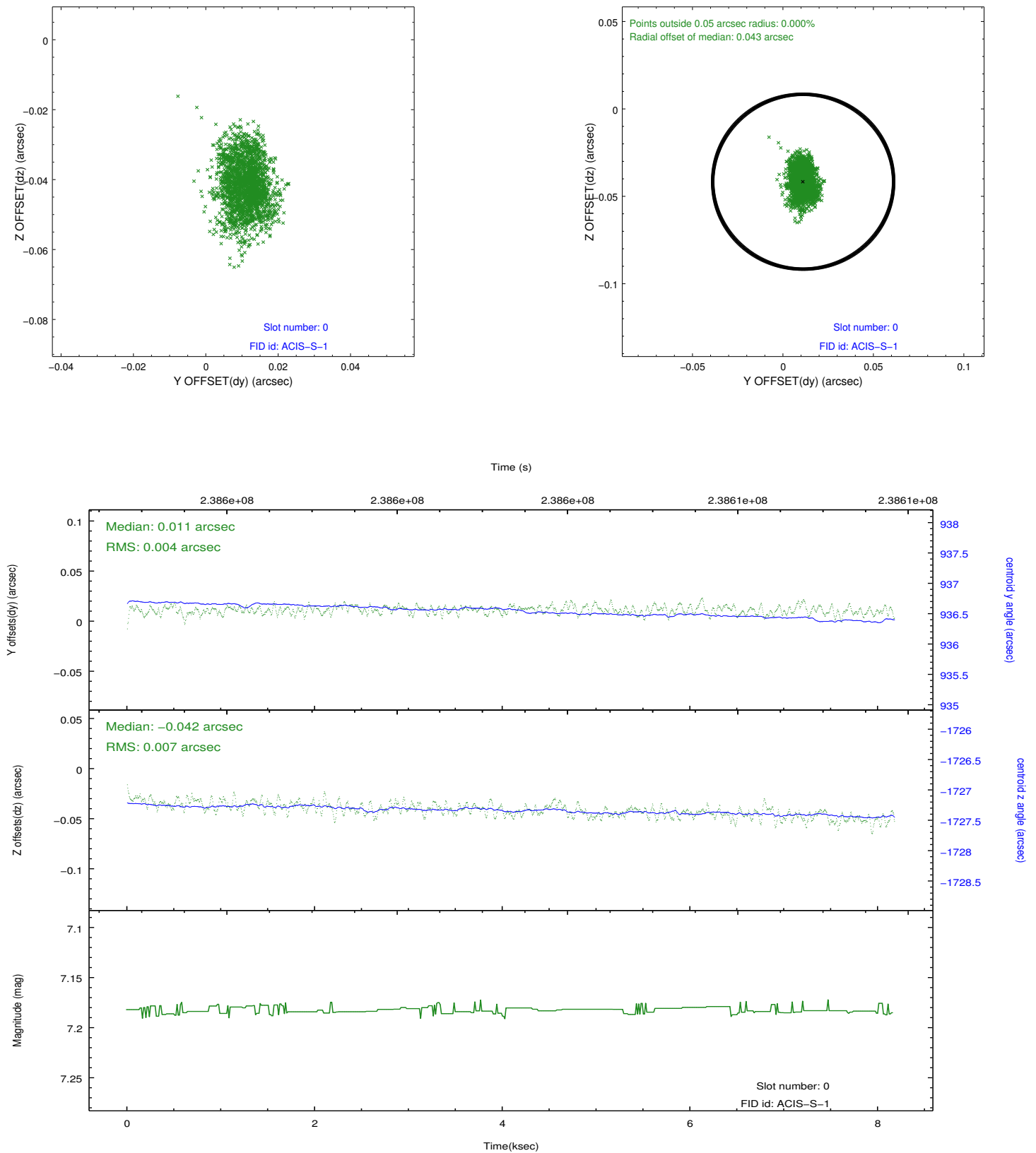


## 2.4.5 Slot 7

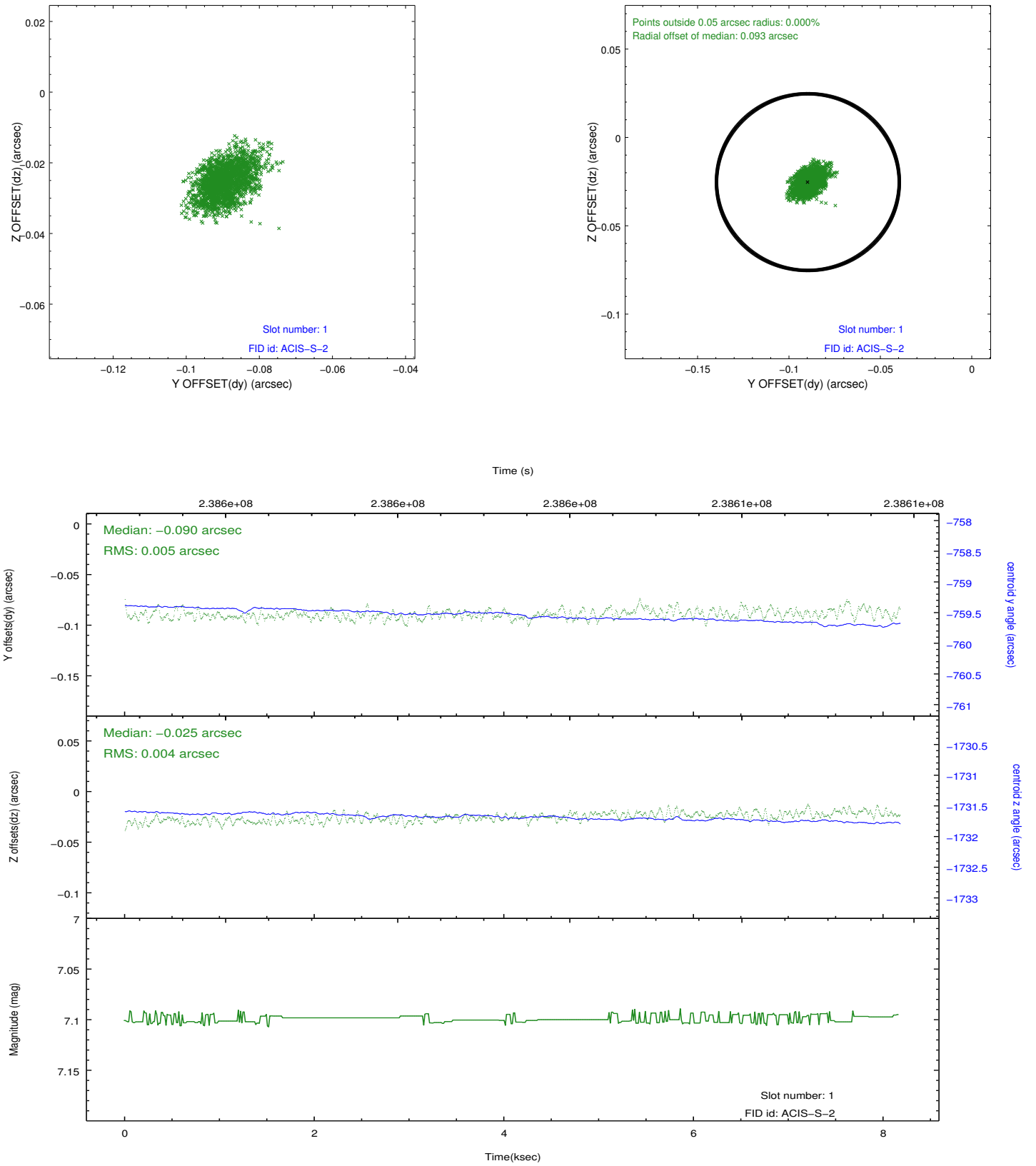


## 2.5 FID Slots

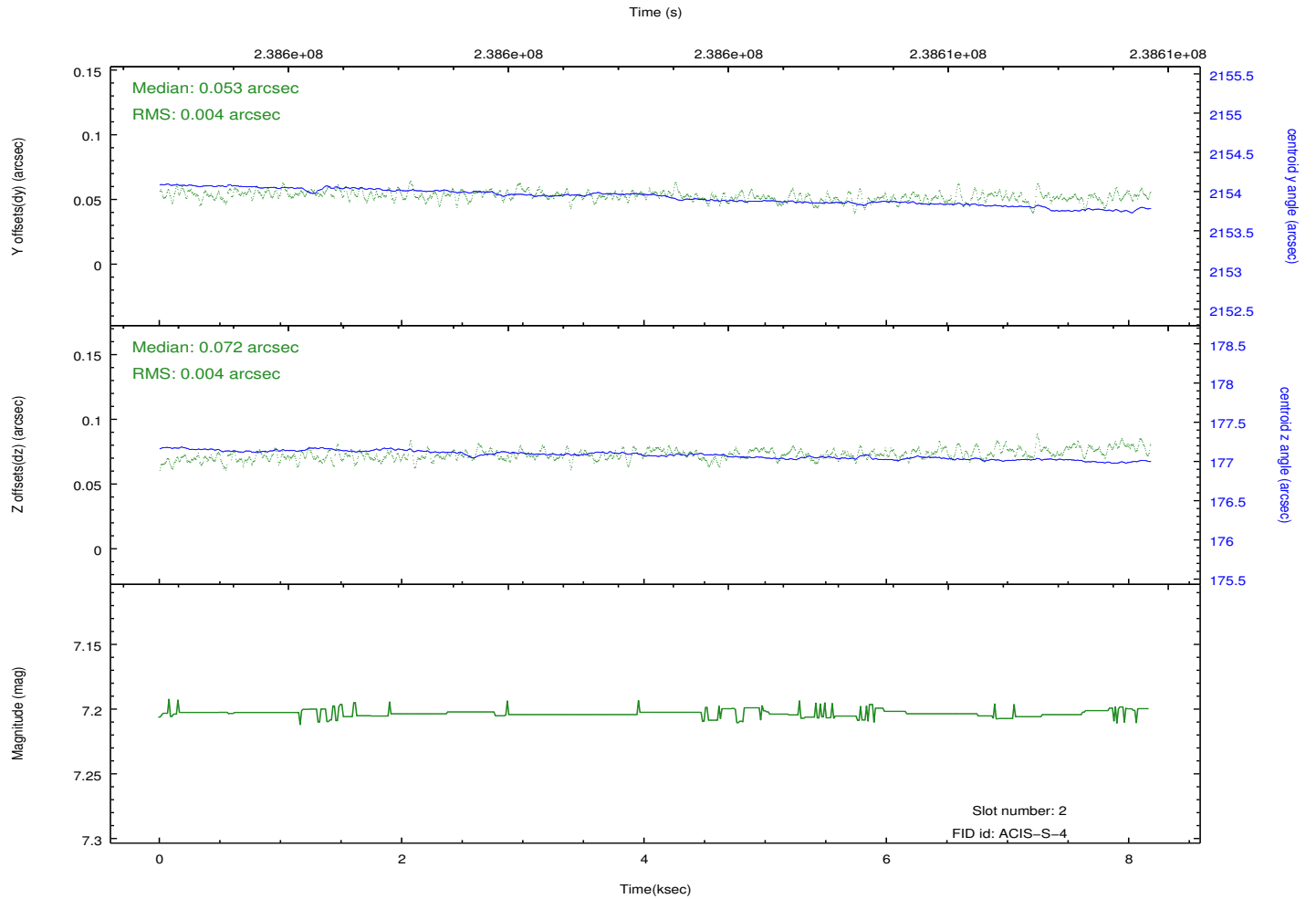
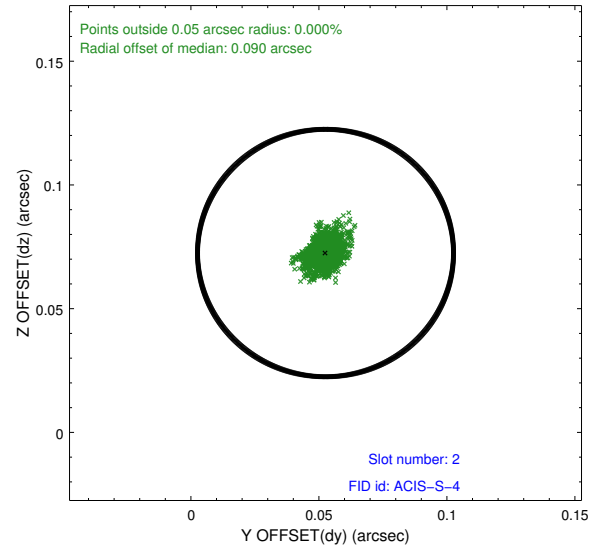
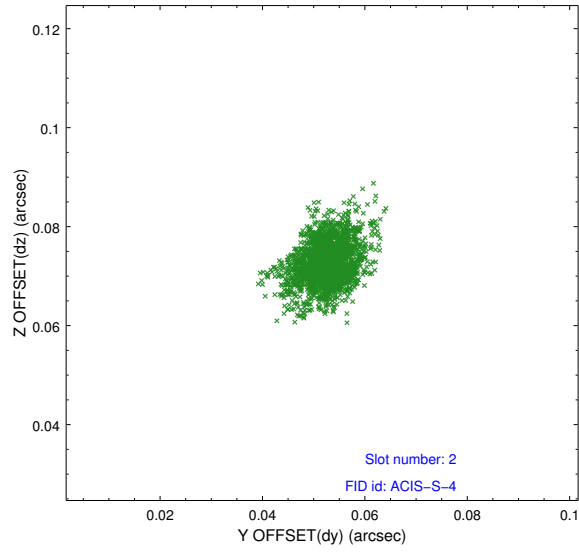
### 2.5.1 Slot 0



## 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)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.37475

## A.2 Comments

Charge time for this ObsId remains at previous value of 8.37475 ks although with the current processing the charge time would have been 8.18 ksec.

=====

Window constraint satisfied. 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.