

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12479 - L2 Version 2  
Chandra X-Ray Center

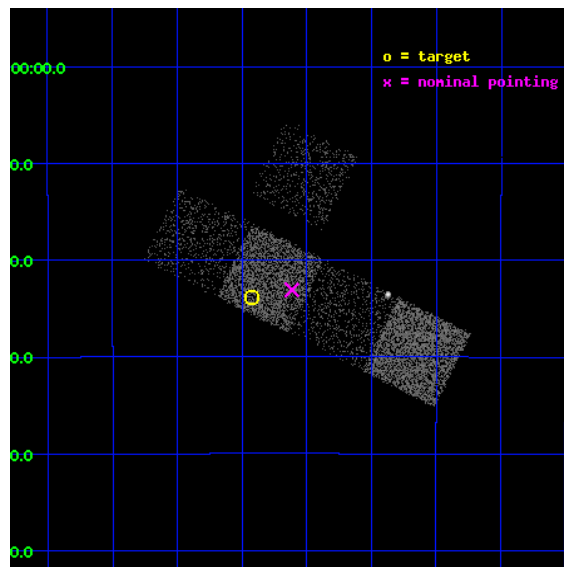
L2 Processing Date : Feb 12 2012

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# 1 Front

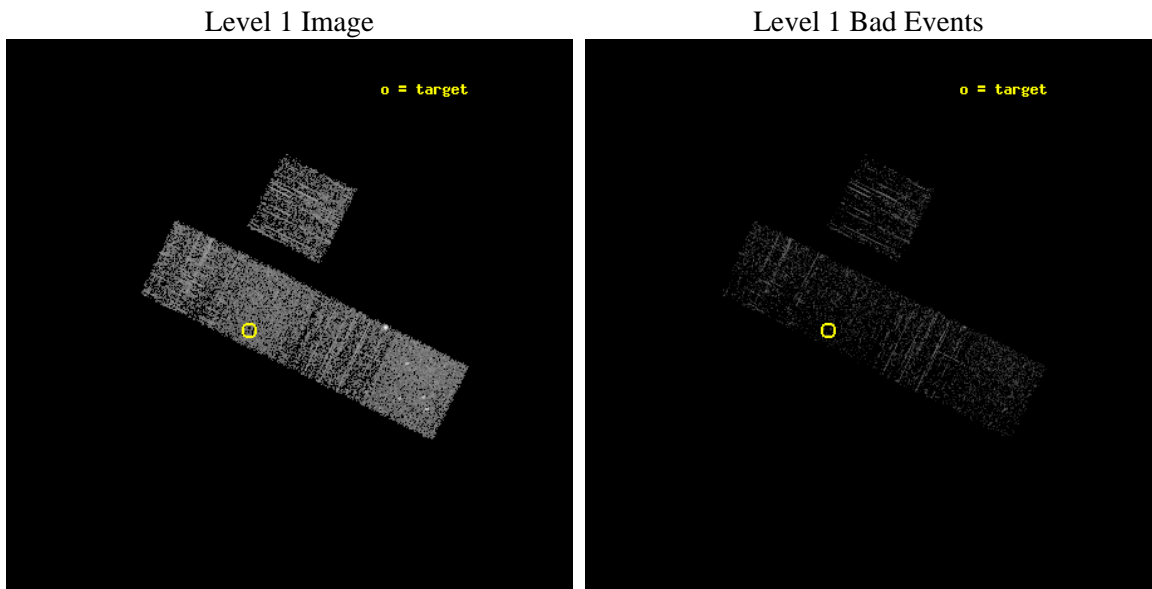
seq_num	401220	Sequence number
obs_id	12479	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J064855.3-252350	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	102.230417	Observer's specified target RA [deg]
dec_targ	-25.397222	Observer's specified target Dec [deg]
ra_nom	102.15379558576	Nominal RA [deg]
dec_nom	-25.384697855078	Nominal Dec [deg]
roll_nom	206.38132806448	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1037.1187273264	Sum of GTIs [s]
livetime	1023.5680076382	Livetime [s]
ontime3	1036.9956073165	Sum of GTIs [s]
ontime5	1037.0776873231	Sum of GTIs [s]
ontime6	1037.0366473198	Sum of GTIs [s]
ontime7	1037.1187273264	Sum of GTIs [s]
ontime8	1036.9545673132	Sum of GTIs [s]
l2events	11697	Number of level 2 events



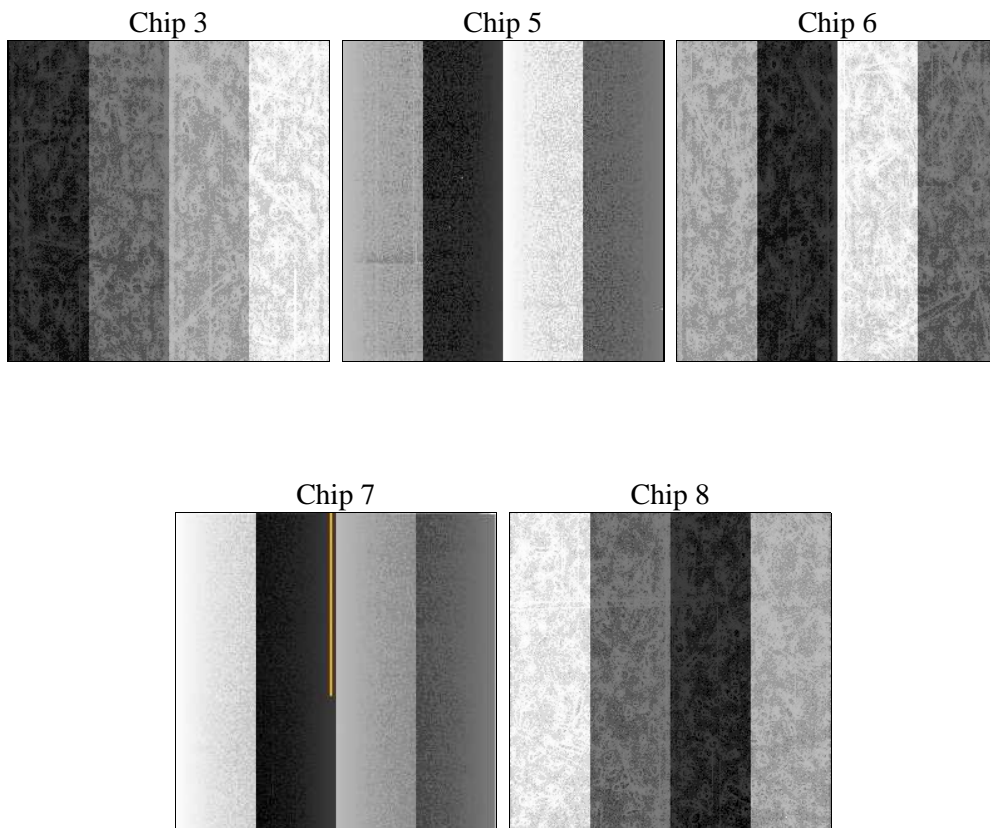
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1037.1187273264	Sum of GTIs [s]
caldsver	4.4.7	&#160	ontime3	1036.9956073165	Sum of GTIs [s]
date	2012-02-12T10:38:59	Date and time of file creation	ontime5	1037.0776873231	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	1037.0366473198	Sum of GTIs [s]
			ontime7	1037.1187273264	Sum of GTIs [s]
			ontime8	1036.9545673132	Sum of GTIs [s]
			l1events	43260	Number of level 1 events

### 2.1.4 Events

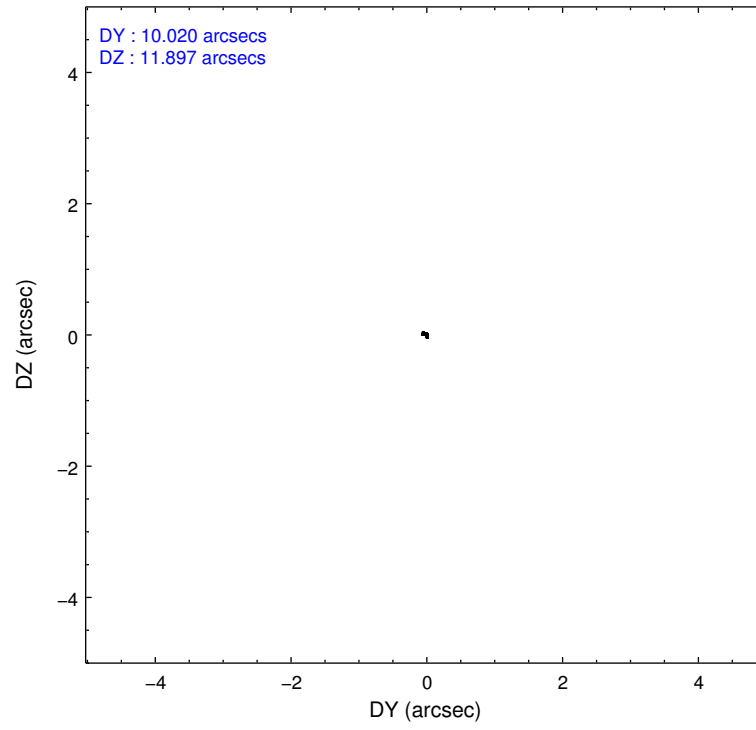
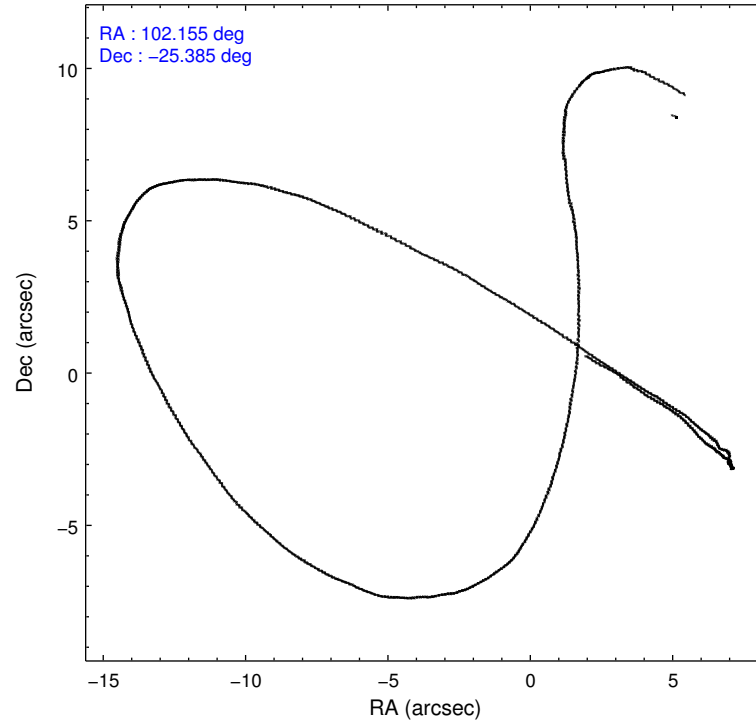
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6896	11099	8370	8462	8433
rejected events	6203	5497	6419	4670	6268
rejected %	89%	49%	76%	55%	74%

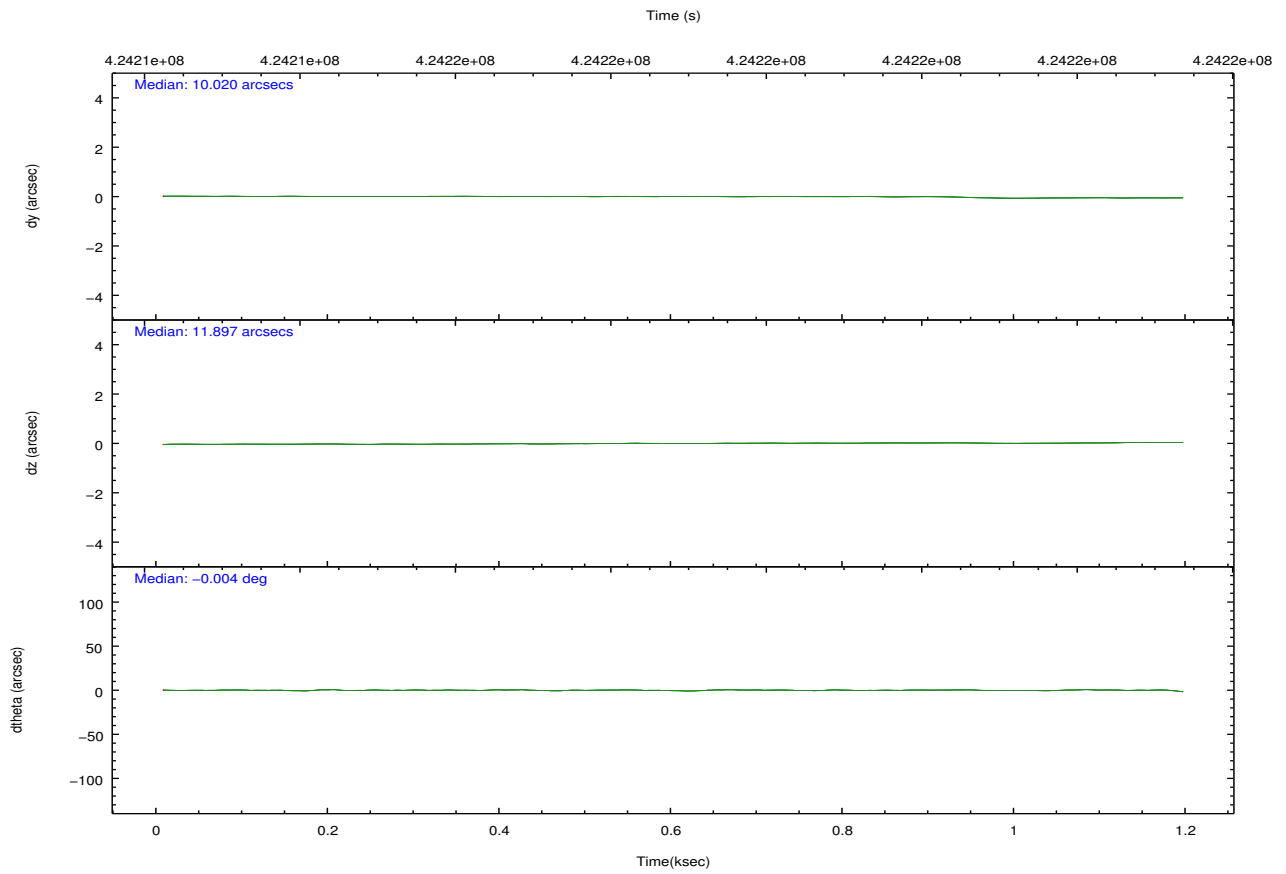
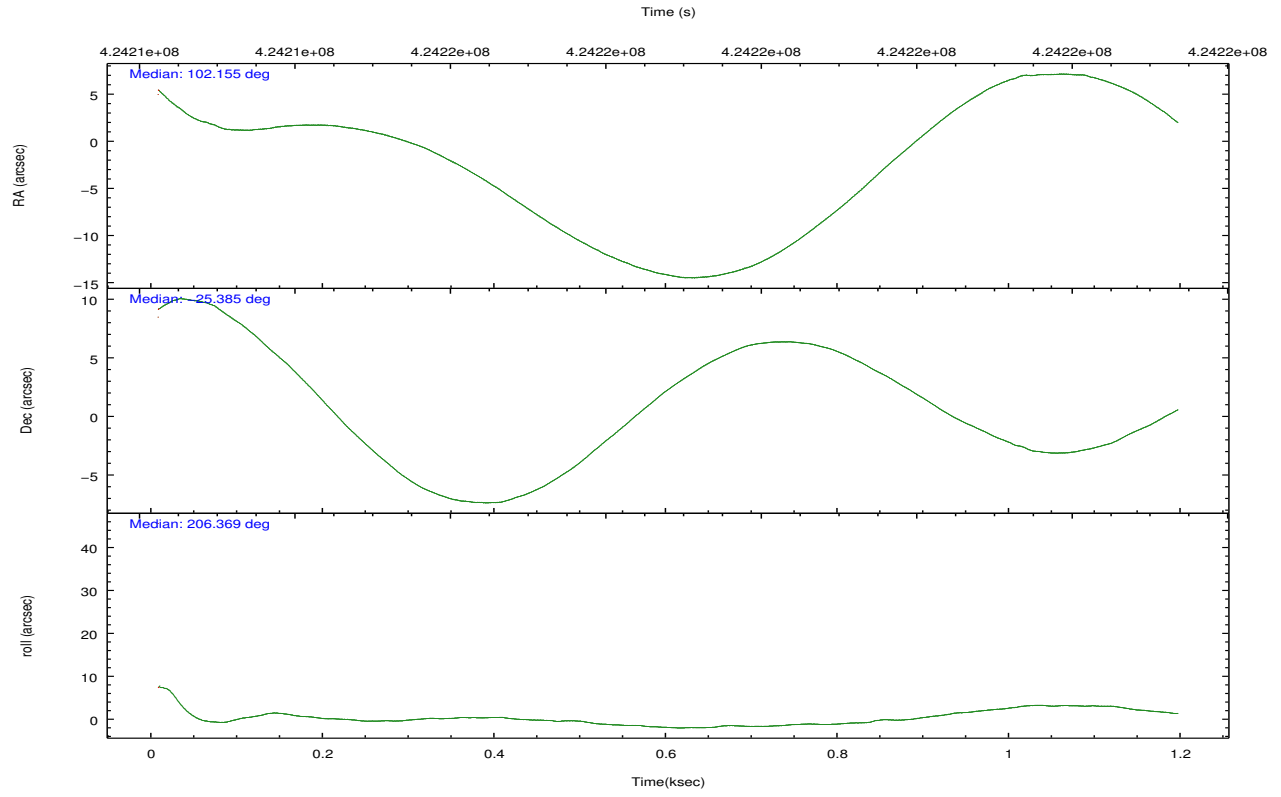
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	234	945	1243	366	636
	3%	8%	14%	4%	7%
grade 1 events	2	43	21	10	8
	0%	0%	0%	0%	0%
grade 2 events	144	1578	276	777	543
	2%	14%	3%	9%	6%
grade 3 events	65	149	111	318	213
	0%	1%	1%	3%	2%
grade 4 events	84	165	122	323	205
	1%	1%	1%	3%	2%
grade 5 events	297	716	364	884	456
	4%	6%	4%	10%	5%
grade 6 events	171	2797	213	2032	572
	2%	25%	2%	24%	6%
grade 7 events	5899	4706	6020	3752	5800
	85%	42%	71%	44%	68%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	102.169670	102.1537955857583	CCD I2 on	N	N
[deg] Pointing Dec	-25.361663	-25.38469785507775	CCD I3 on	O1	Y
[deg] Pointing Roll	206.231442	206.3813280644757	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	Y	Y
[s] Observation start time (MET)	424214886.184000	424213619.40999	CCD S5 on	N	N
Observation start date	2011-06-11T21:27:00	2011-06-11T21:06:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	424215886.184000	424216992.68516	On-chip summing requested	N	N
Observation end date	2011-06-11T21:43:40	2011-06-11T22:03:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





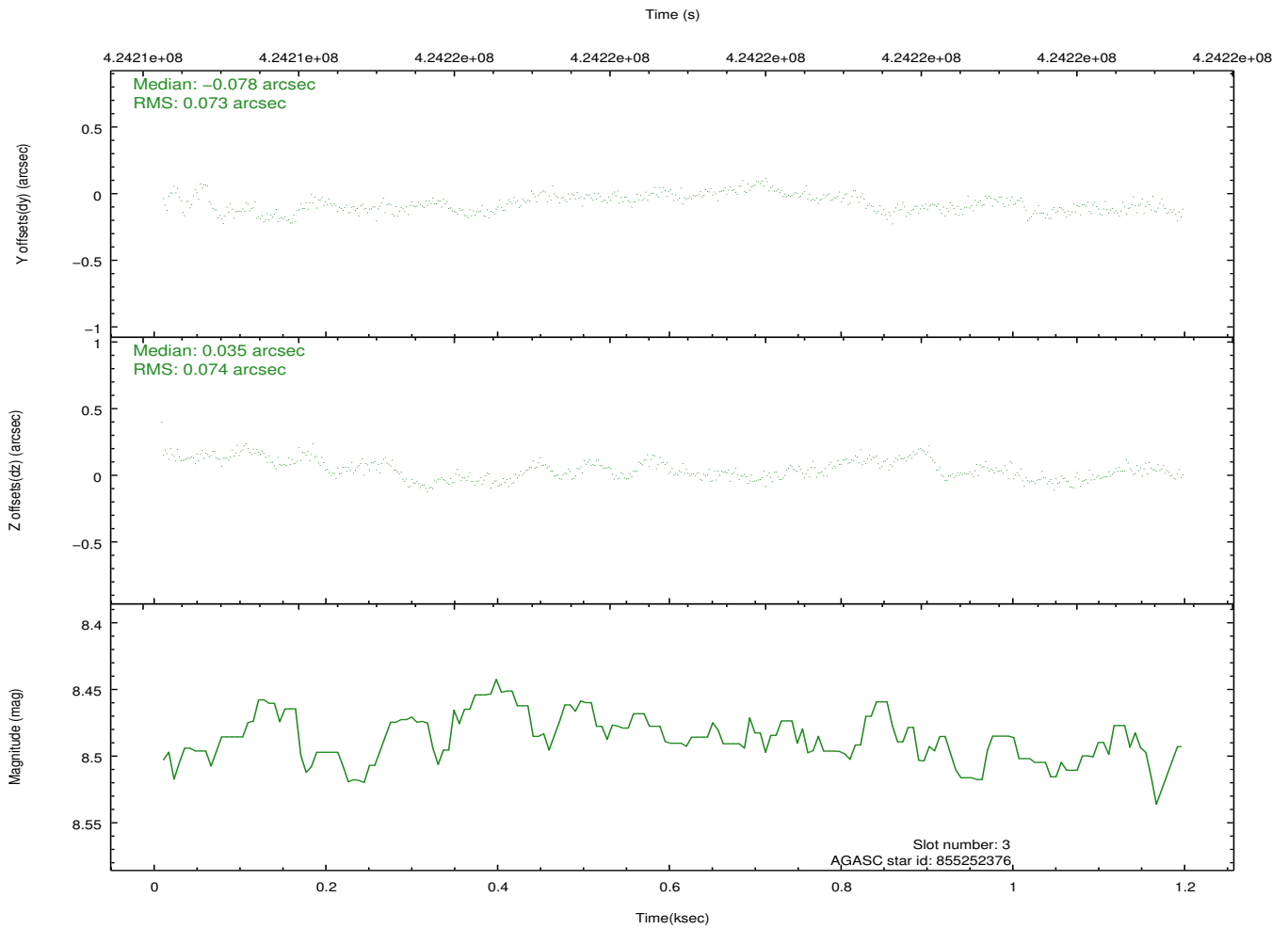
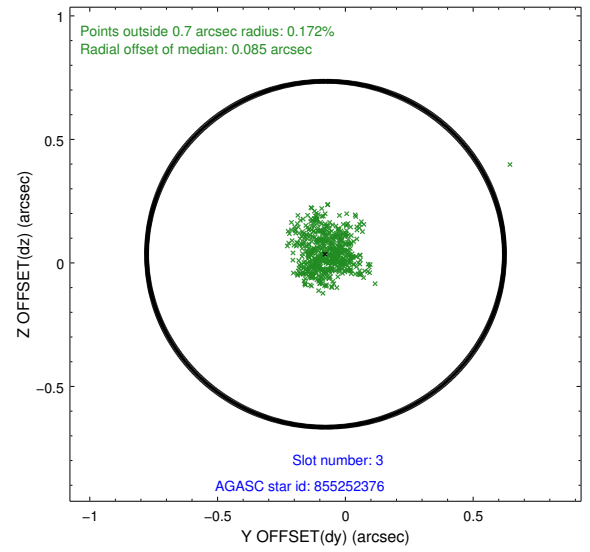
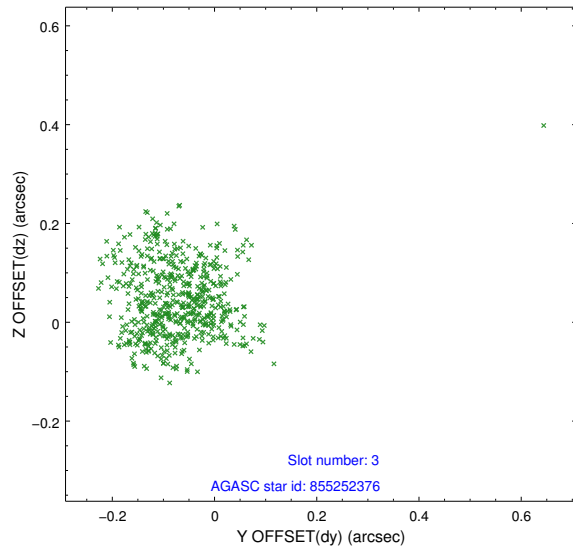
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.03	291	-0.047	-0.035	0.007	0.011	0.000000	0.000000	-762.89	-1733.12
1	FID	ACIS-S-4	7.12	291	0.183	0.033	0.007	0.011	0.000000	0.000000	2148.07	169.64
2	FID	ACIS-S-5	7.15	291	-0.168	0.012	0.007	0.011	0.000000	0.000000	-1808.67	169.65
3	GUIDE	855252376	8.49	581	-0.078	0.035	0.106	0.167	101.913266	-24.943390	87.62	-1720.51
4	GUIDE	855253496	9.45	577	0.078	0.038	0.130	0.219	101.904324	-25.160964	458.85	-1032.99
5	GUIDE	855260760	8.66	581	-0.055	0.141	0.097	0.152	102.457848	-24.997819	-1419.27	-761.03
6	GUIDE	855395320	6.88	581	-0.086	-0.094	0.096	0.178	102.653999	-25.778398	-745.22	2040.09
7	GUIDE	855250136	9.80	577	0.143	-0.134	0.171	0.272	101.240622	-25.037829	2208.72	-2372.56

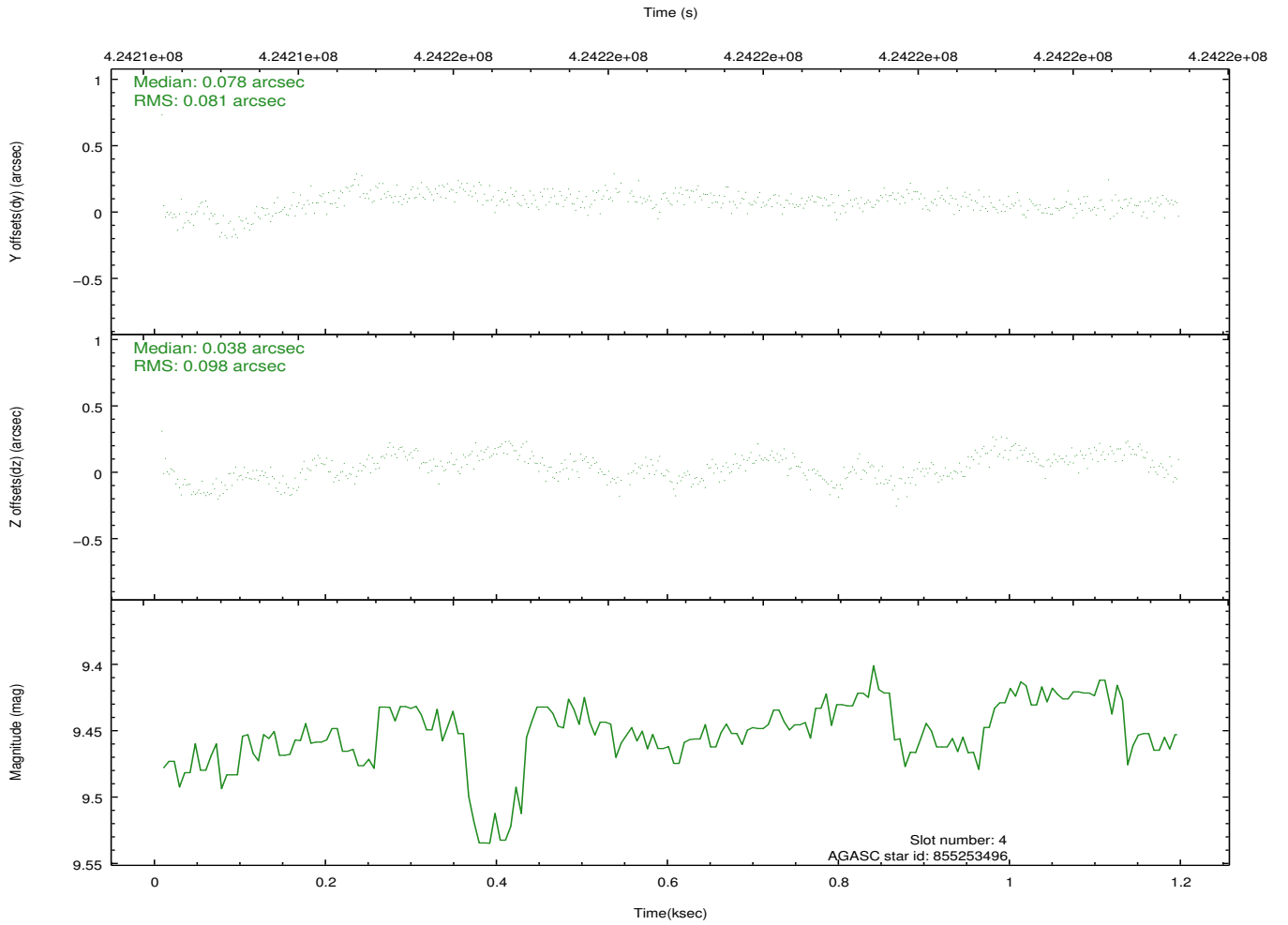
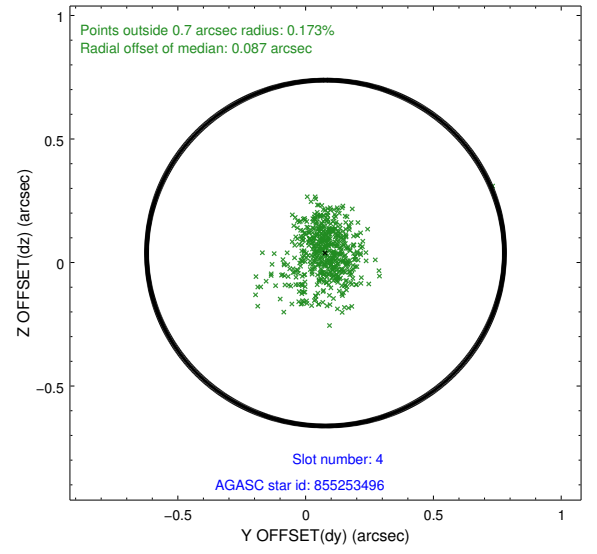
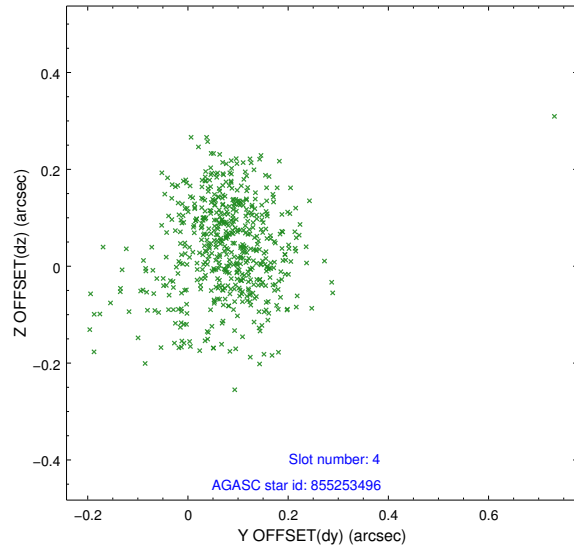


## 2.4 Star Slots

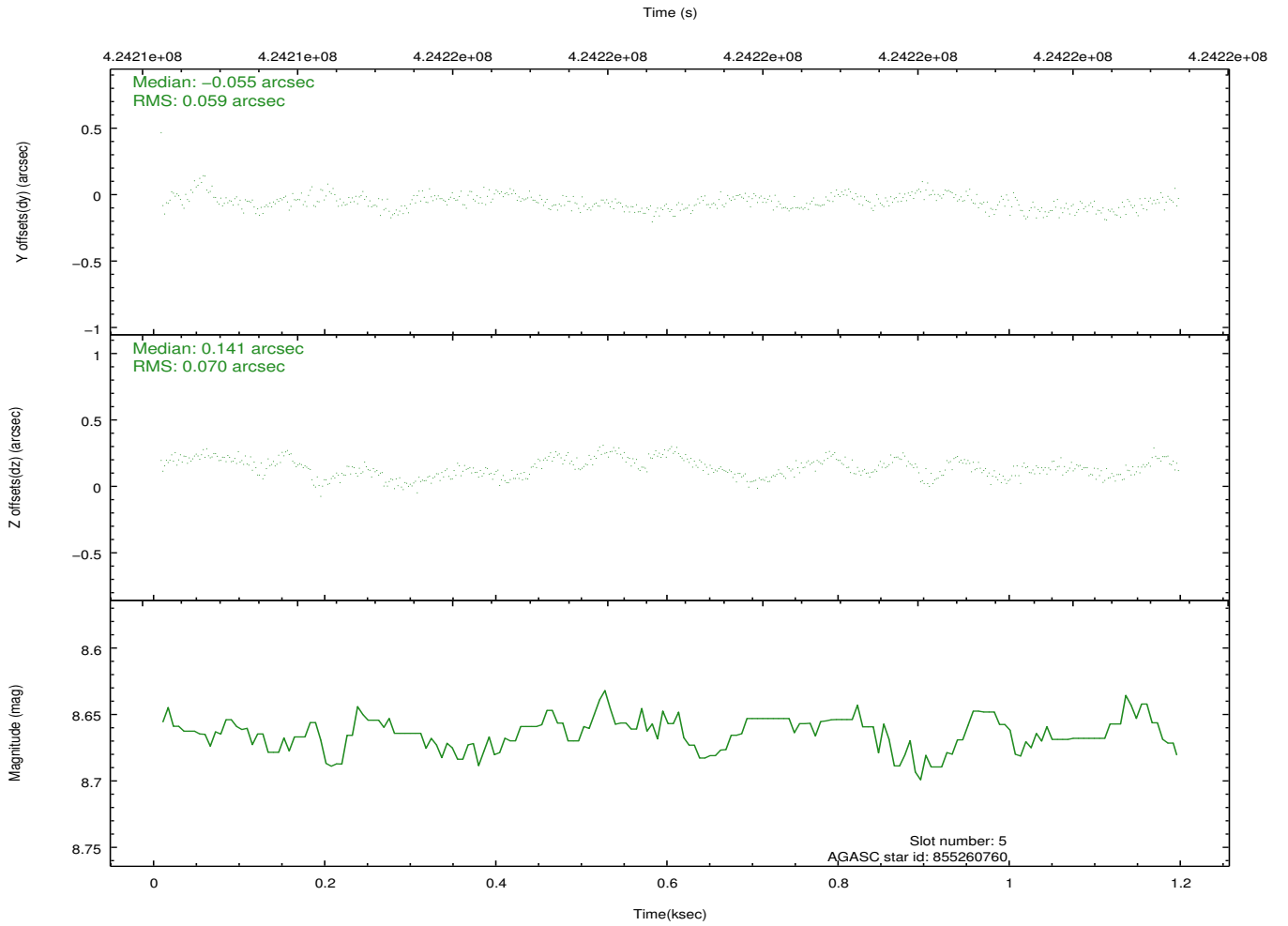
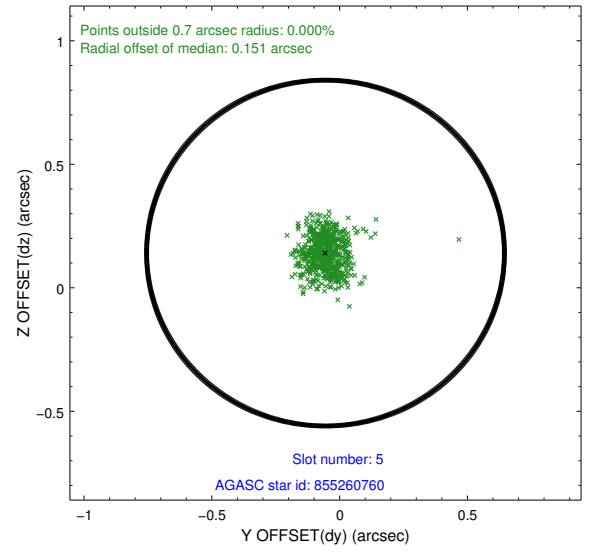
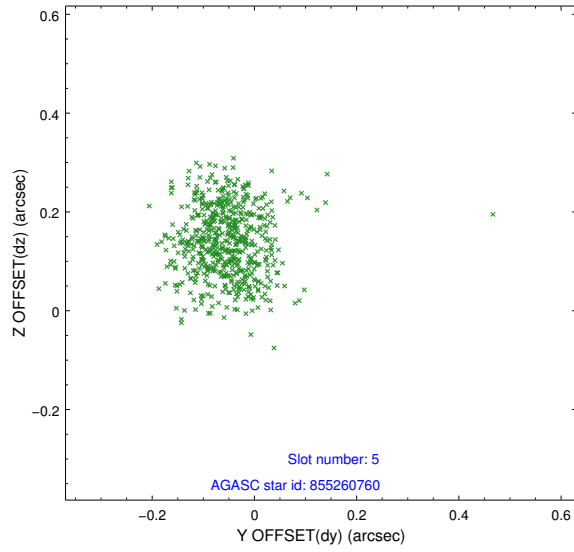
### 2.4.1 Slot 3



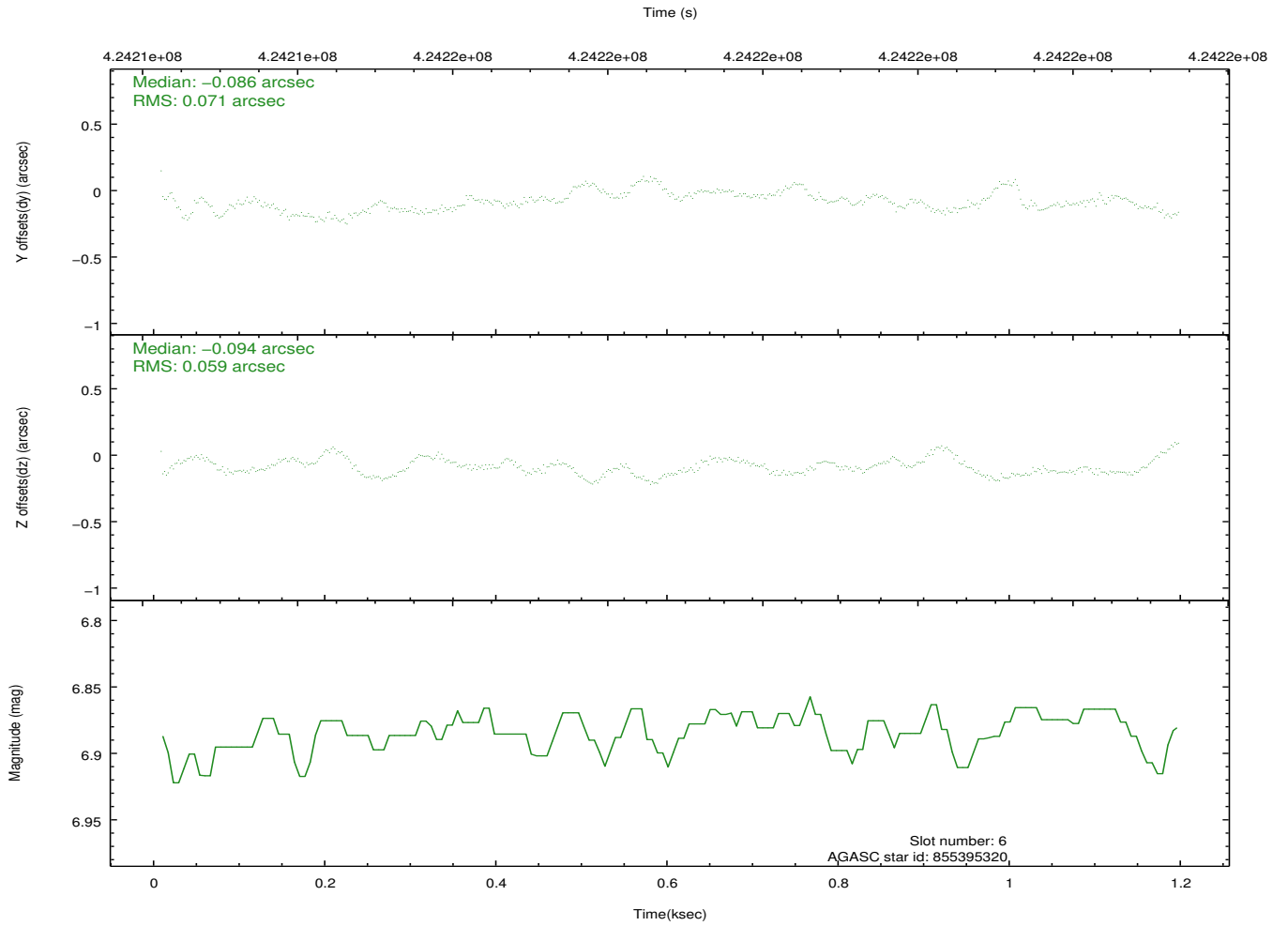
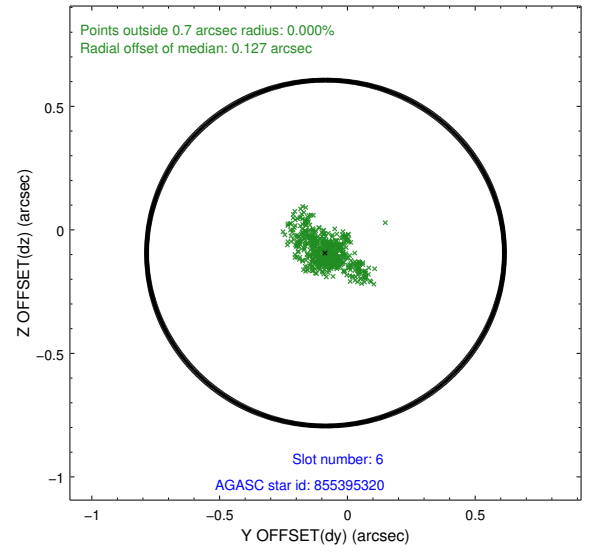
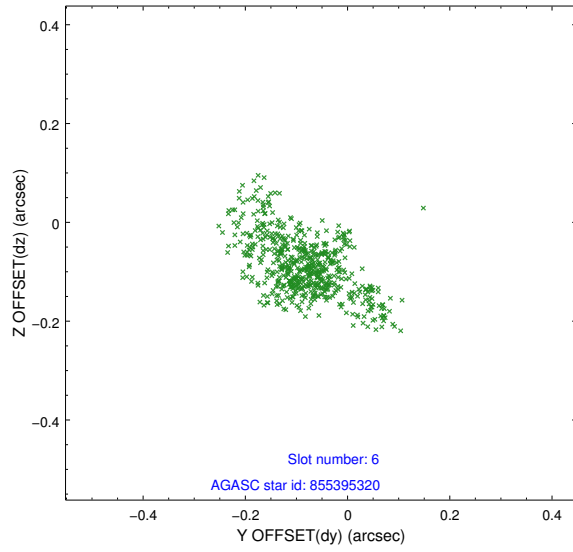
## 2.4.2 Slot 4



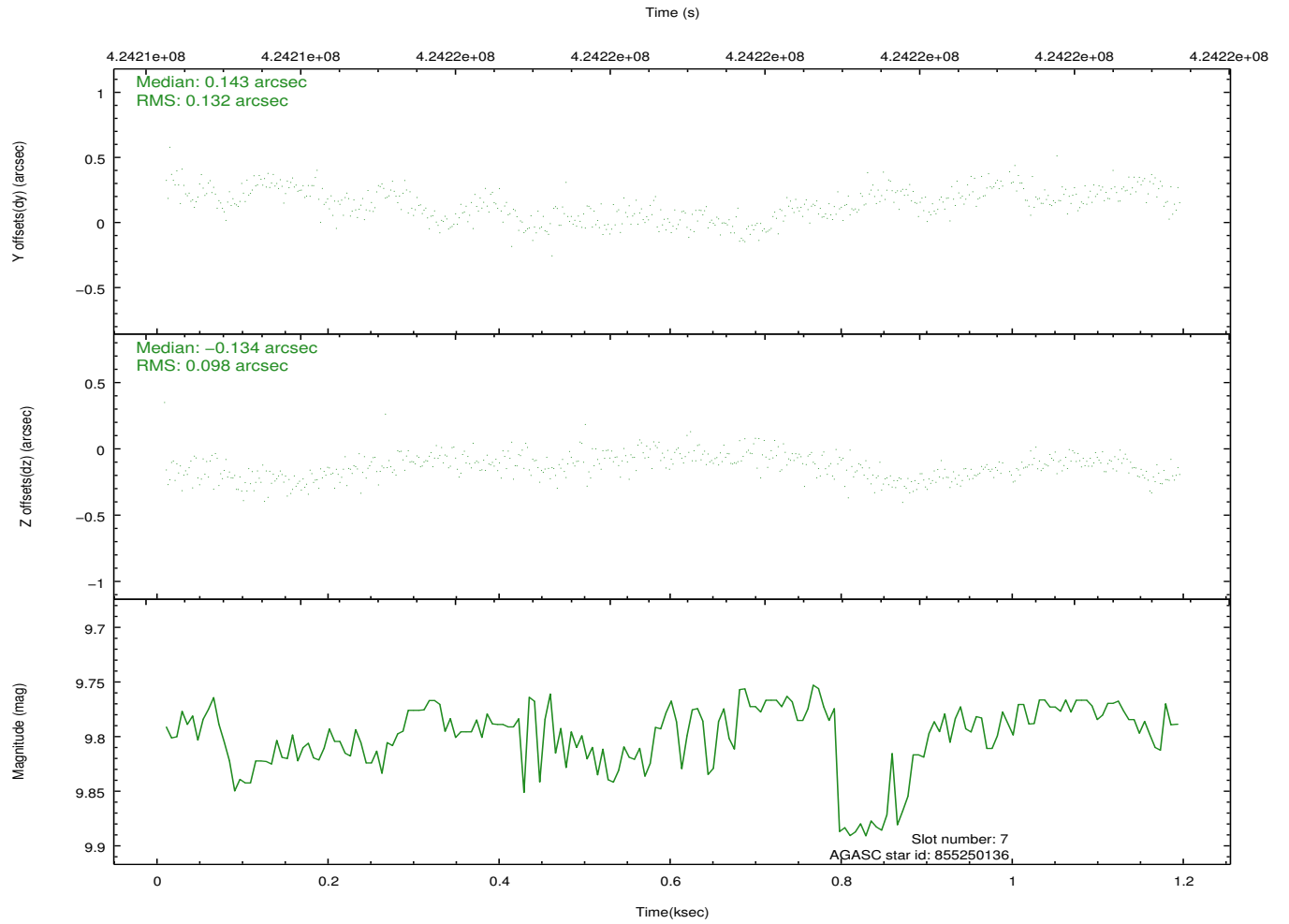
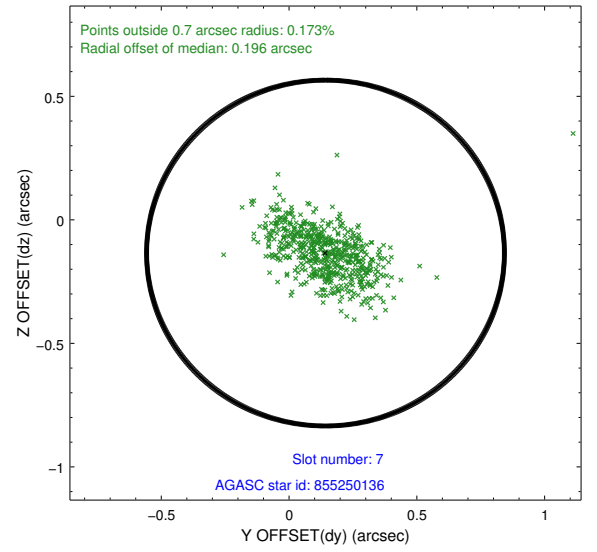
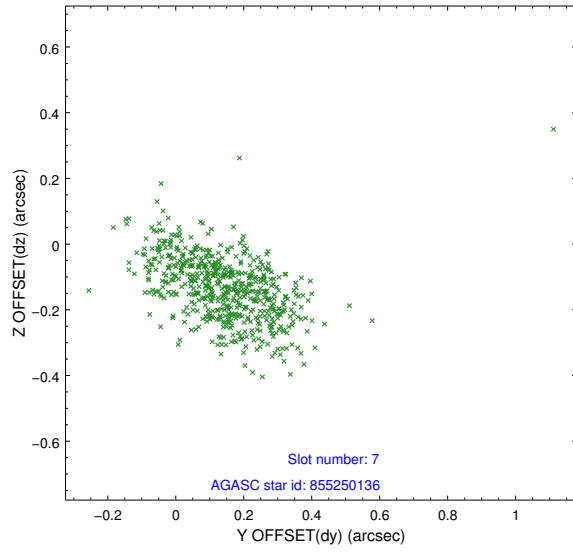
### 2.4.3 Slot 5



## 2.4.4 Slot 6

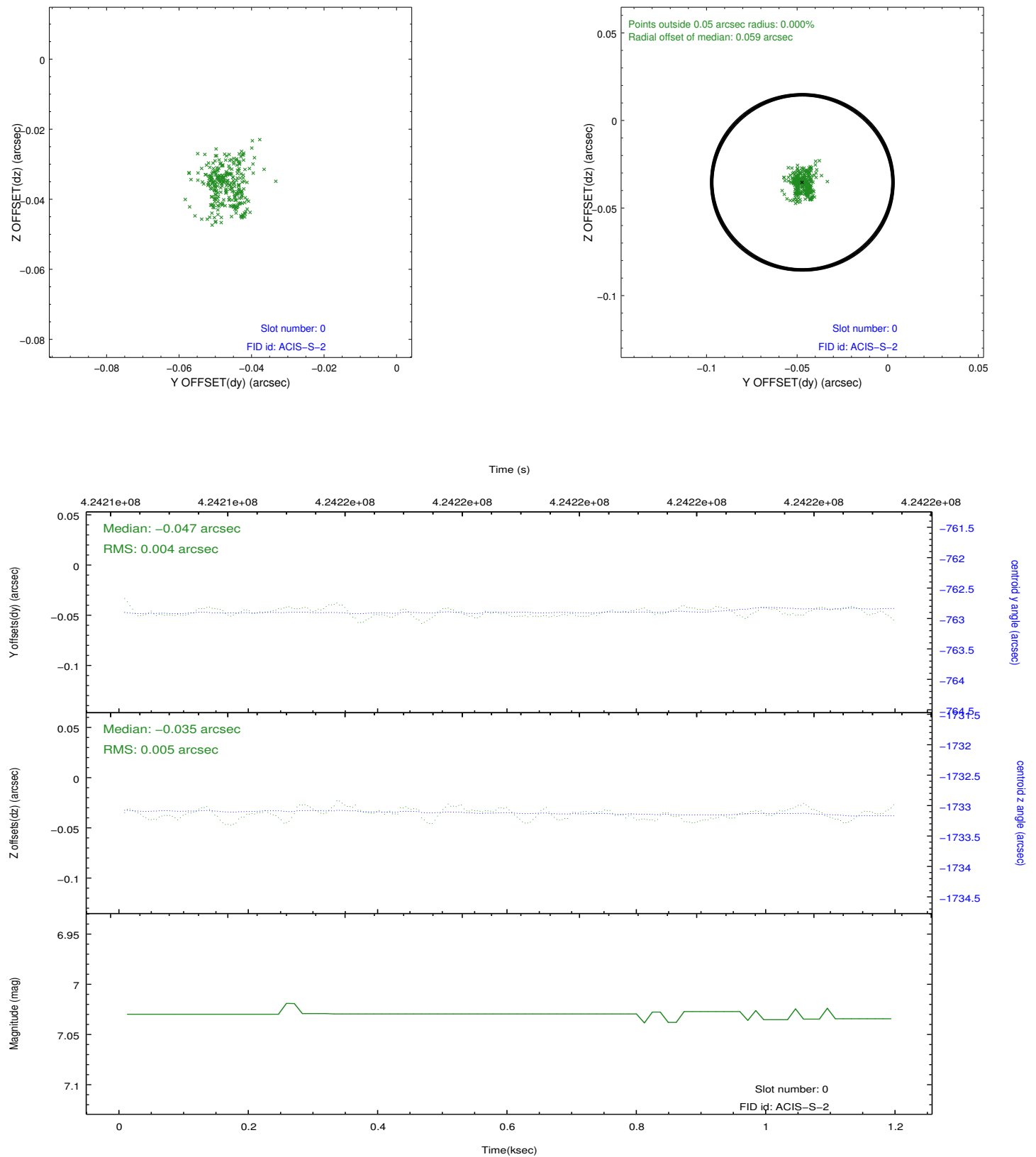


## 2.4.5 Slot 7

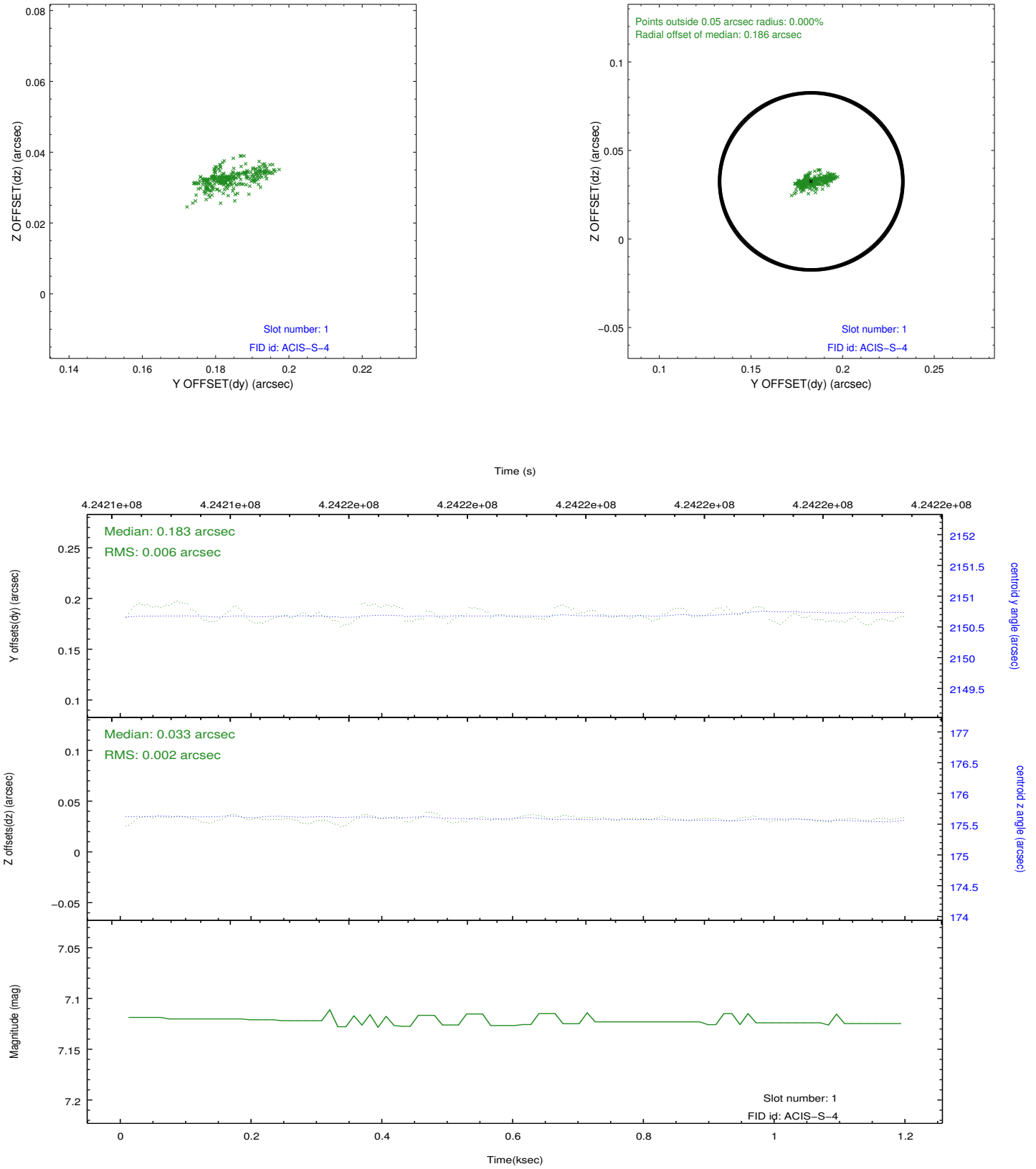


## 2.5 FID Slots

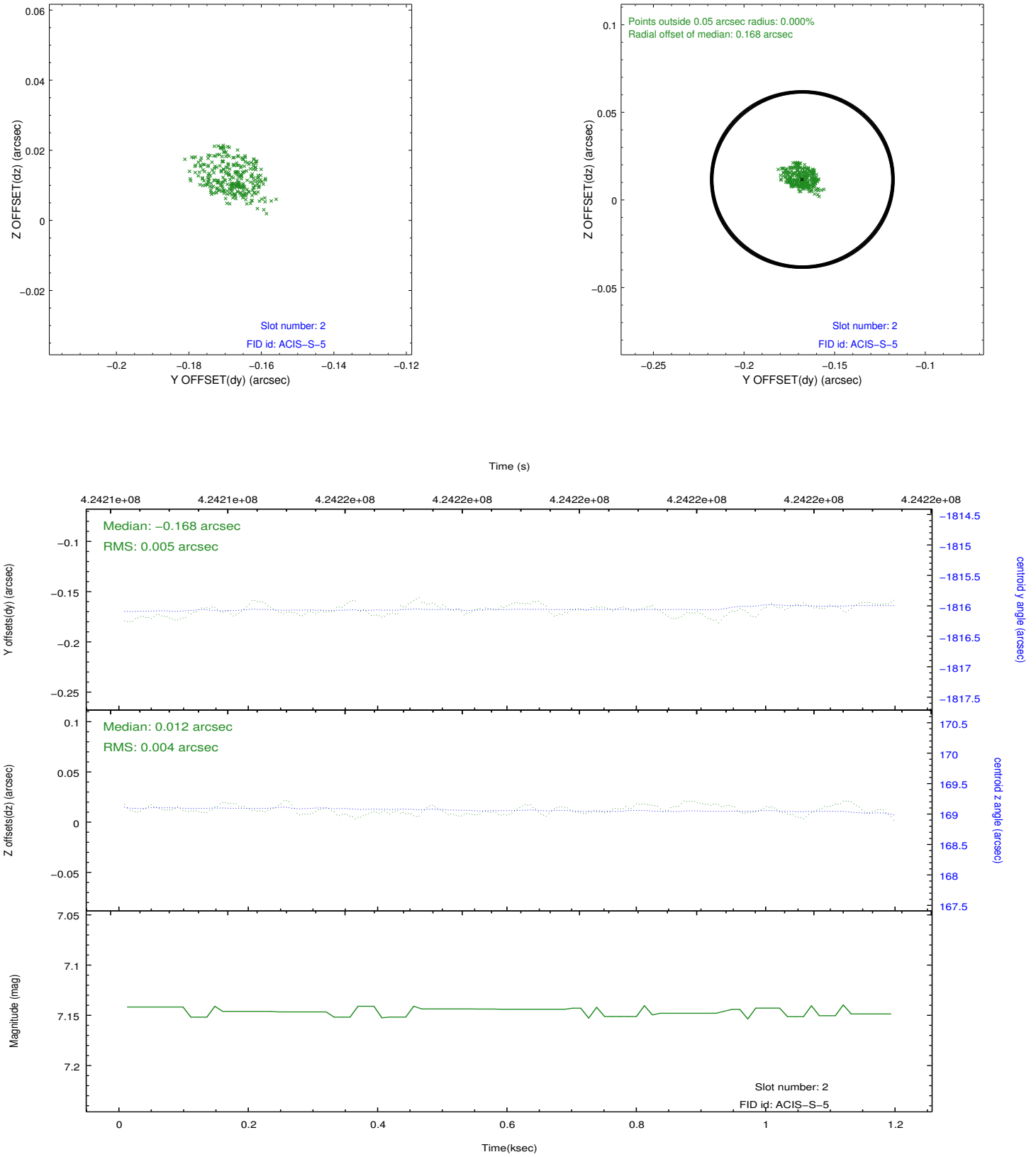
### 2.5.1 Slot 0



## 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)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0371187262535

### A.2 Comments