

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12908 - L2 Version 2  
Chandra X-Ray Center

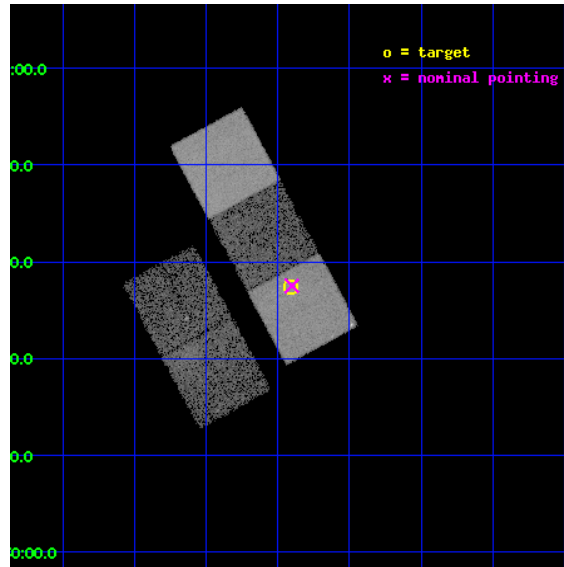
L2 Processing Date : Feb 28 2012

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# 1 Front

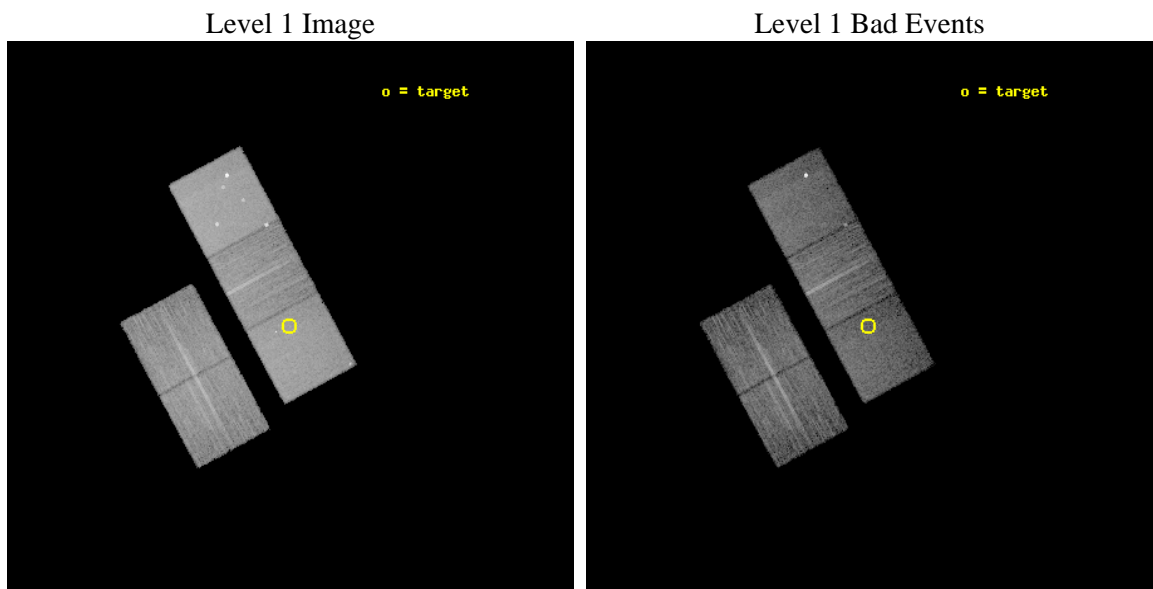
seq_num	801045	Sequence number
obs_id	12908	Observation id
title	Abell 1882: A Proto-cluster at Low Redshift	Proposal title
observer	Professor Christopher Miller	Principal investigator
object	A1882b	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	213.602083	Observer's specified target RA [deg]
dec_targ	-0.377194	Observer's specified target Dec [deg]
ra_nom	213.6005763137	Nominal RA [deg]
dec_nom	-0.37458263412589	Nominal Dec [deg]
roll_nom	61.644365845306	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13106.053590059	Sum of GTIs [s]
livetime	12934.813351369	Livetime [s]
ontime2	13102.748469651	Sum of GTIs [s]
ontime3	13105.930470049	Sum of GTIs [s]
ontime5	13106.012550056	Sum of GTIs [s]
ontime6	13105.971510053	Sum of GTIs [s]
ontime7	13106.053590059	Sum of GTIs [s]
l2events	137660	Number of level 2 events



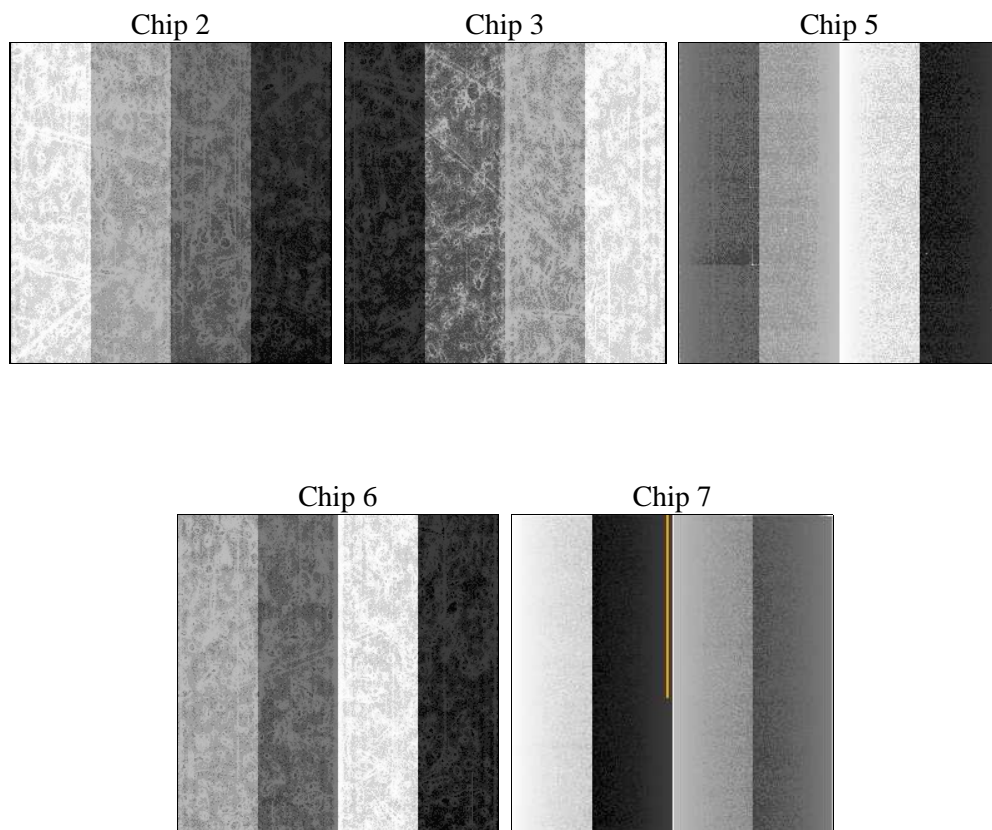
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13333.334000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	13106.053590059	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	13102.748469651	Sum of GTIs [s]
date	2012-02-28T18:34:27	Date and time of file creation	ontime3	13105.930470049	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	13106.012550056	Sum of GTIs [s]
			ontime6	13105.971510053	Sum of GTIs [s]
			ontime7	13106.053590059	Sum of GTIs [s]
			l1events	507416	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	83155	82449	142161	87612	112039
rejected events	73379	72607	74138	77468	60858
rejected %	88%	88%	52%	88%	54%

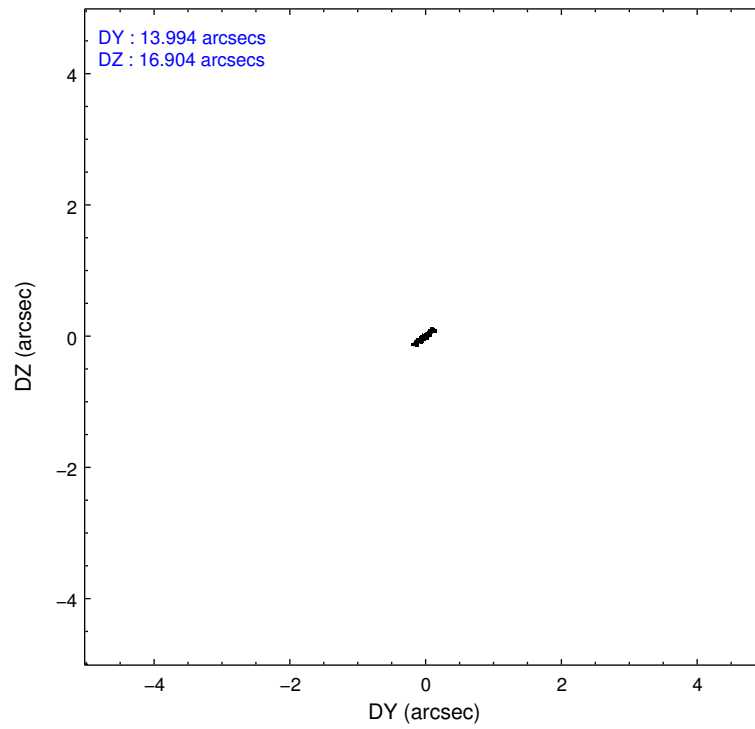
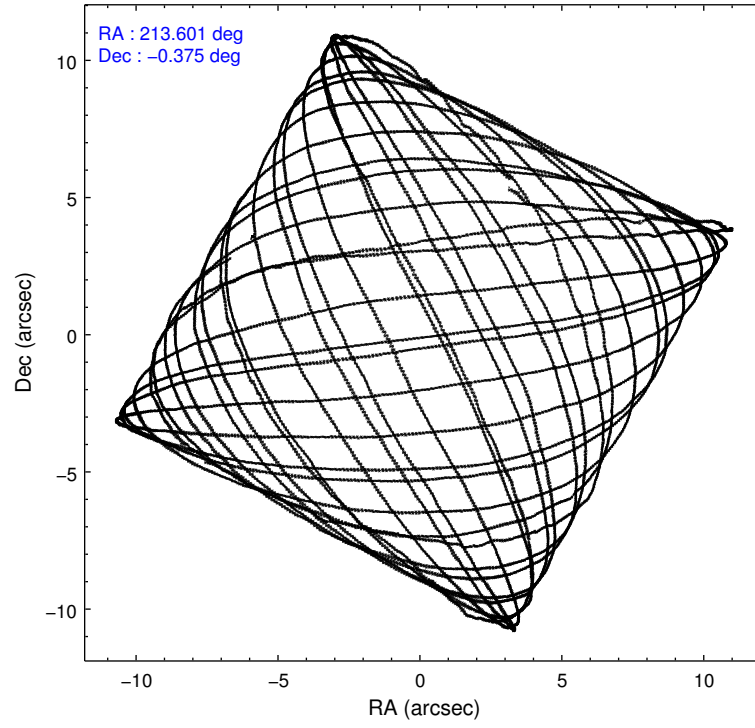
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3632	3831	7505	3596	5144
	4%	4%	5%	4%	4%
grade 1 events	70	49	326	45	124
	0%	0%	0%	0%	0%
grade 2 events	2320	2111	20203	2246	10442
	2%	2%	14%	2%	9%
grade 3 events	986	1010	2521	1067	4450
	1%	1%	1%	1%	3%
grade 4 events	1055	983	2454	989	4478
	1%	1%	1%	1%	3%
grade 5 events	3470	4189	12931	4129	11404
	4%	5%	9%	4%	10%
grade 6 events	1784	1910	35358	2249	26681
	2%	2%	24%	2%	23%
grade 7 events	69838	68366	60863	73291	49316
	83%	82%	42%	83%	44%

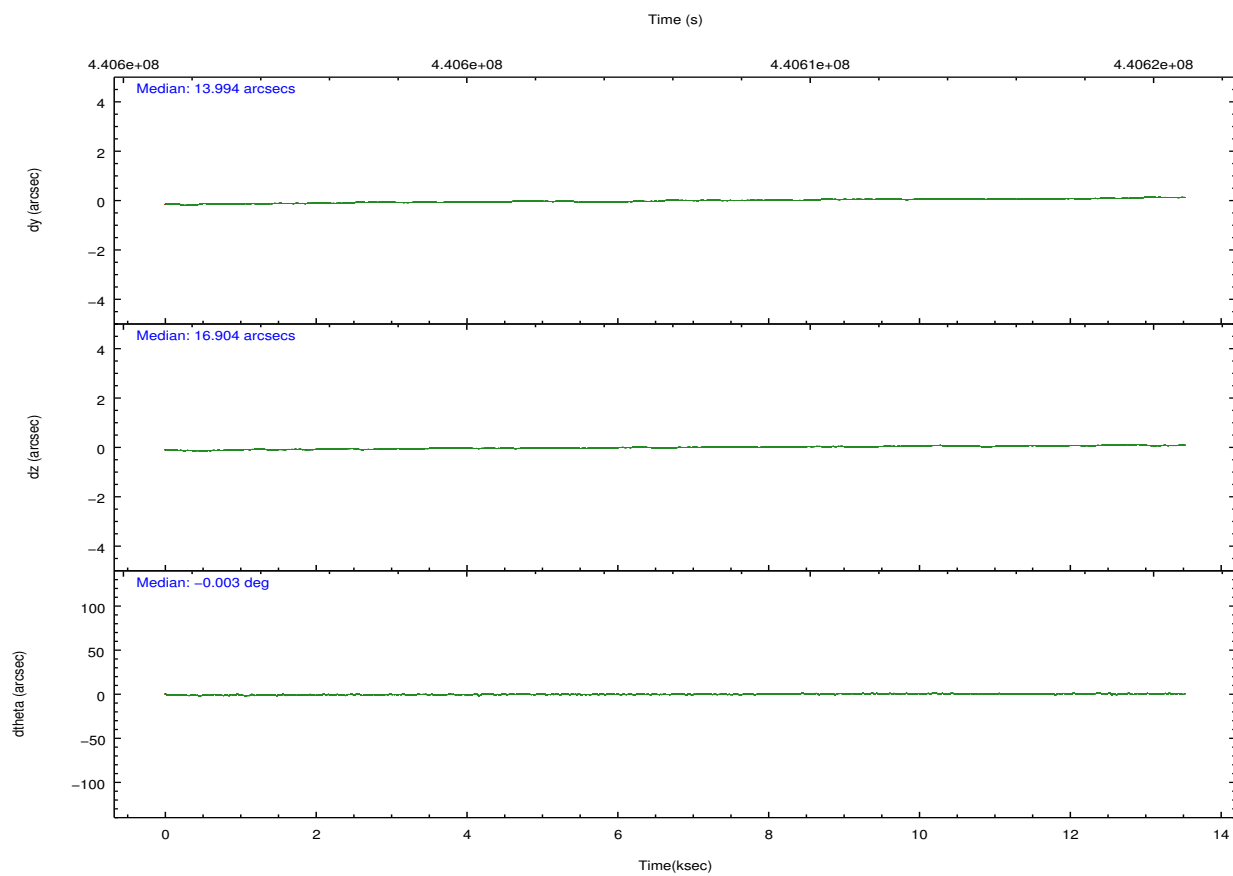
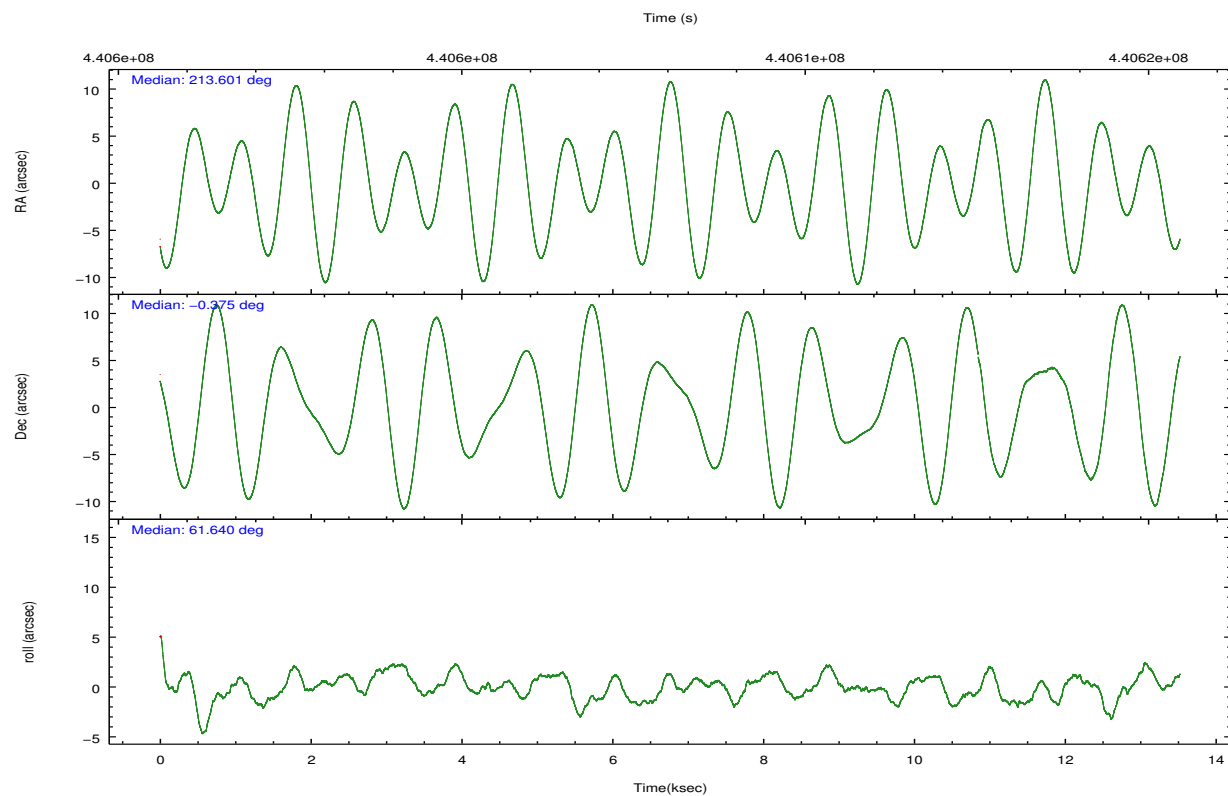


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	213.601769	213.6005763137014	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.401869	-0.3745826341258914	CCD I3 on	Y	Y
[deg] Pointing Roll	61.487754	61.64436584530623	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	440601467.184000	440601091.62193	CCD S5 on	N	N
Observation start date	2011-12-18T13:16:41	2011-12-18T13:11:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	440614800.184000	440614934.24766	On-chip summing requested	N	N
Observation end date	2011-12-18T16:58:54	2011-12-18T17:02:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



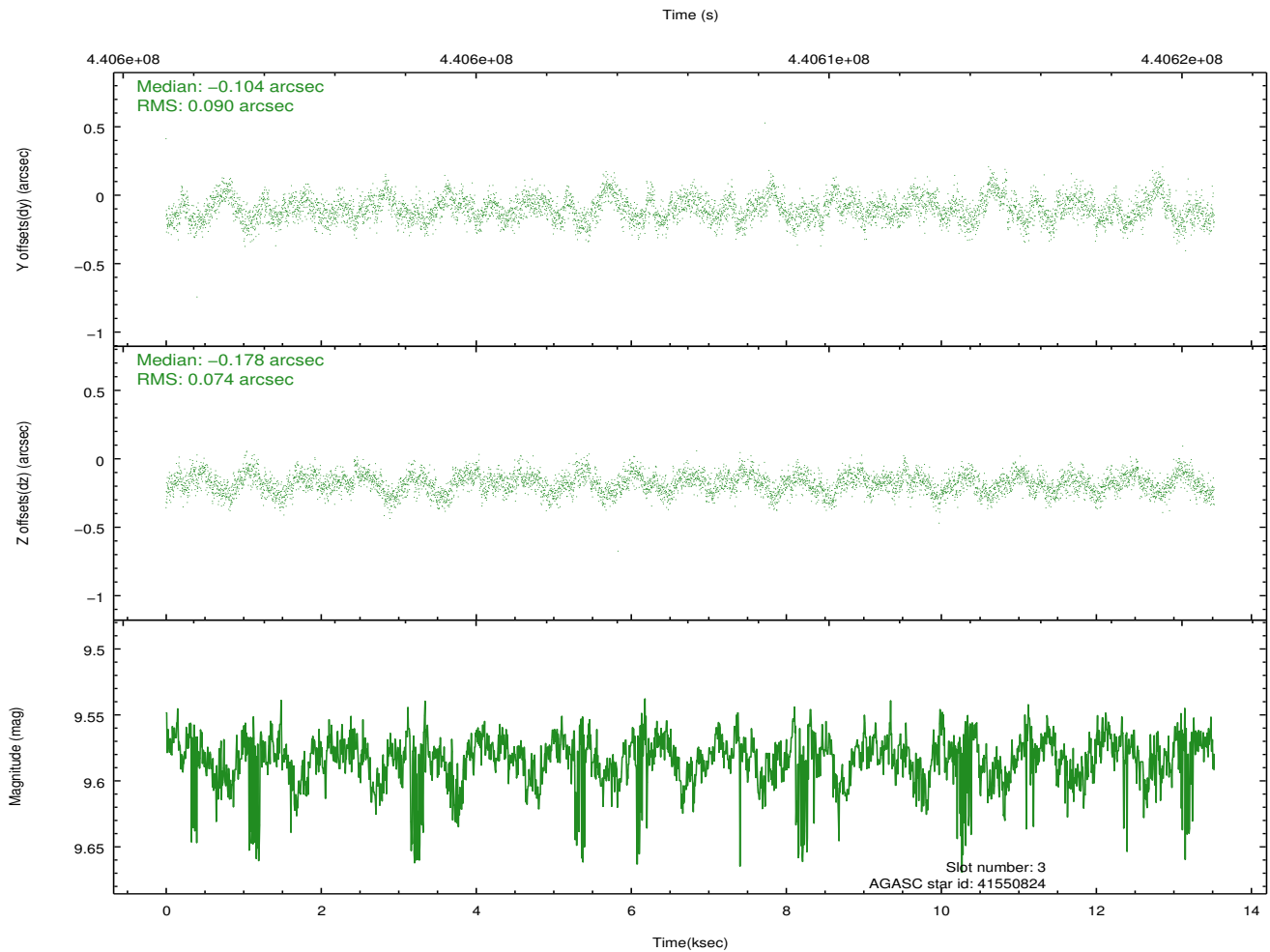
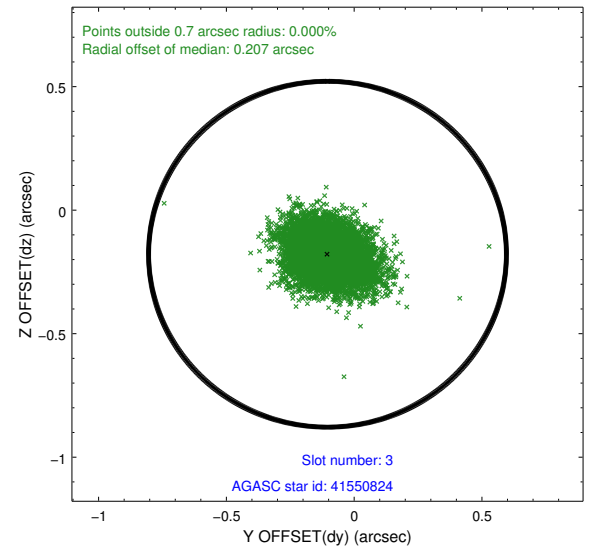
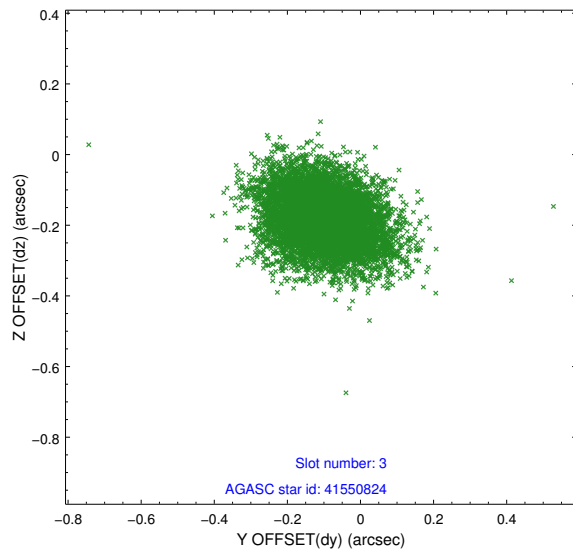


### Slot Statistics

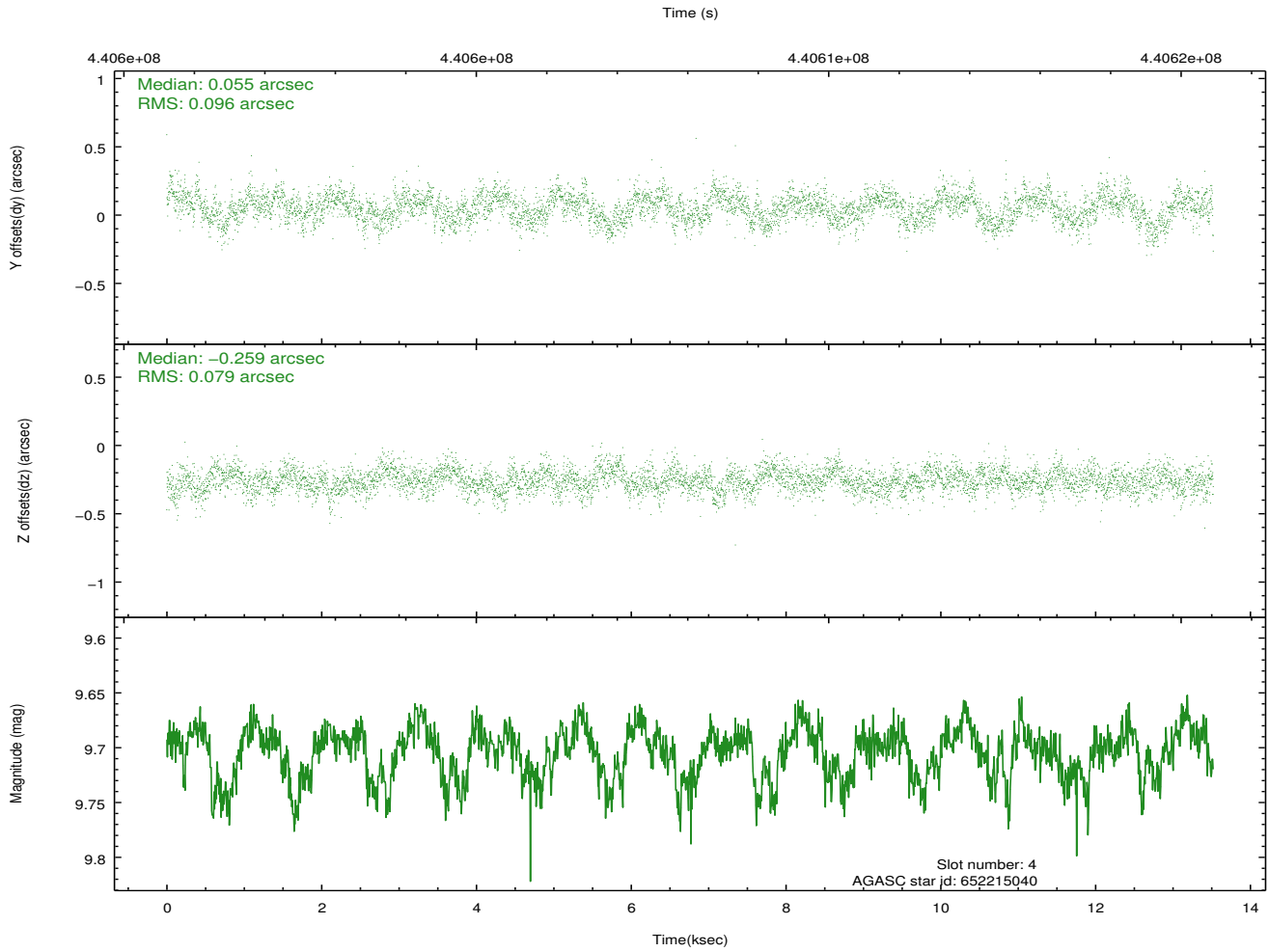
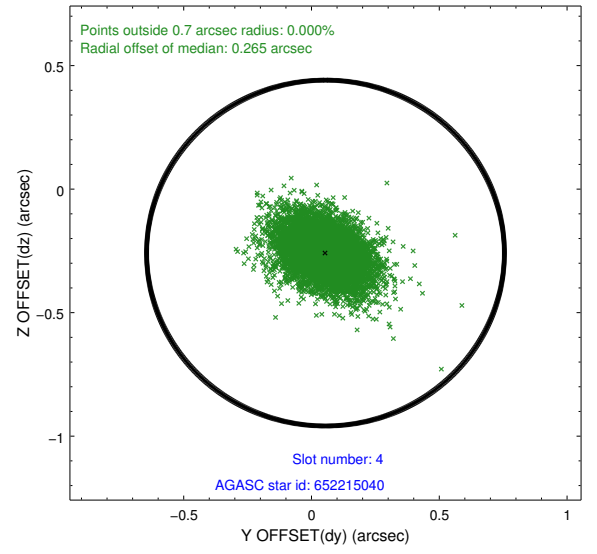
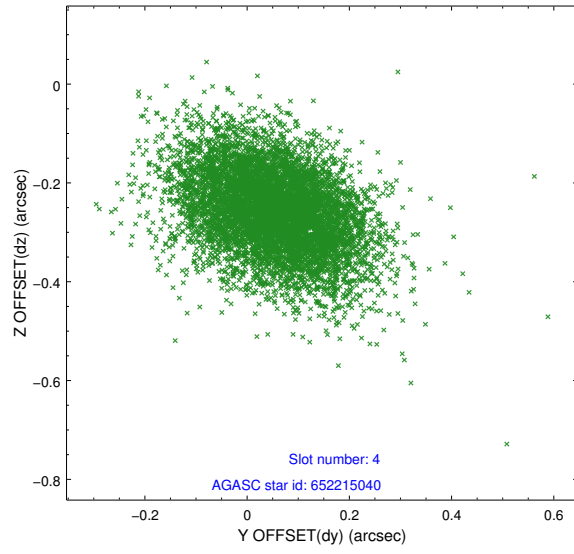
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	3299	-0.051	-0.022	0.007	0.012	0.000000	0.000000	-767.02	-1738.28
1	FID	ACIS-S-4	6.98	3298	0.214	0.031	0.006	0.010	0.000000	0.000000	2146.41	169.82
2	FID	ACIS-S-5	7.01	3299	-0.194	0.000	0.007	0.011	0.000000	0.000000	-1819.51	163.95
3	GUIDE	41550824	9.58	6583	-0.104	-0.178	0.124	0.202	213.709216	0.254022	2259.33	787.77
4	GUIDE	652215040	9.70	6588	0.055	-0.259	0.129	0.219	212.795459	-0.676910	-2255.30	2077.67
5	GUIDE	652215704	9.13	6590	0.139	0.119	0.098	0.162	213.594661	-0.601169	-642.39	-319.39
6	GUIDE	652223856	9.12	6591	-0.079	0.146	0.130	0.220	214.256332	-0.079315	2144.38	-1517.43
7	GUIDE	652224488	6.11	6596	-0.009	0.175	0.073	0.131	213.419957	-0.845464	-1715.18	-190.29

## 2.4 Star Slots

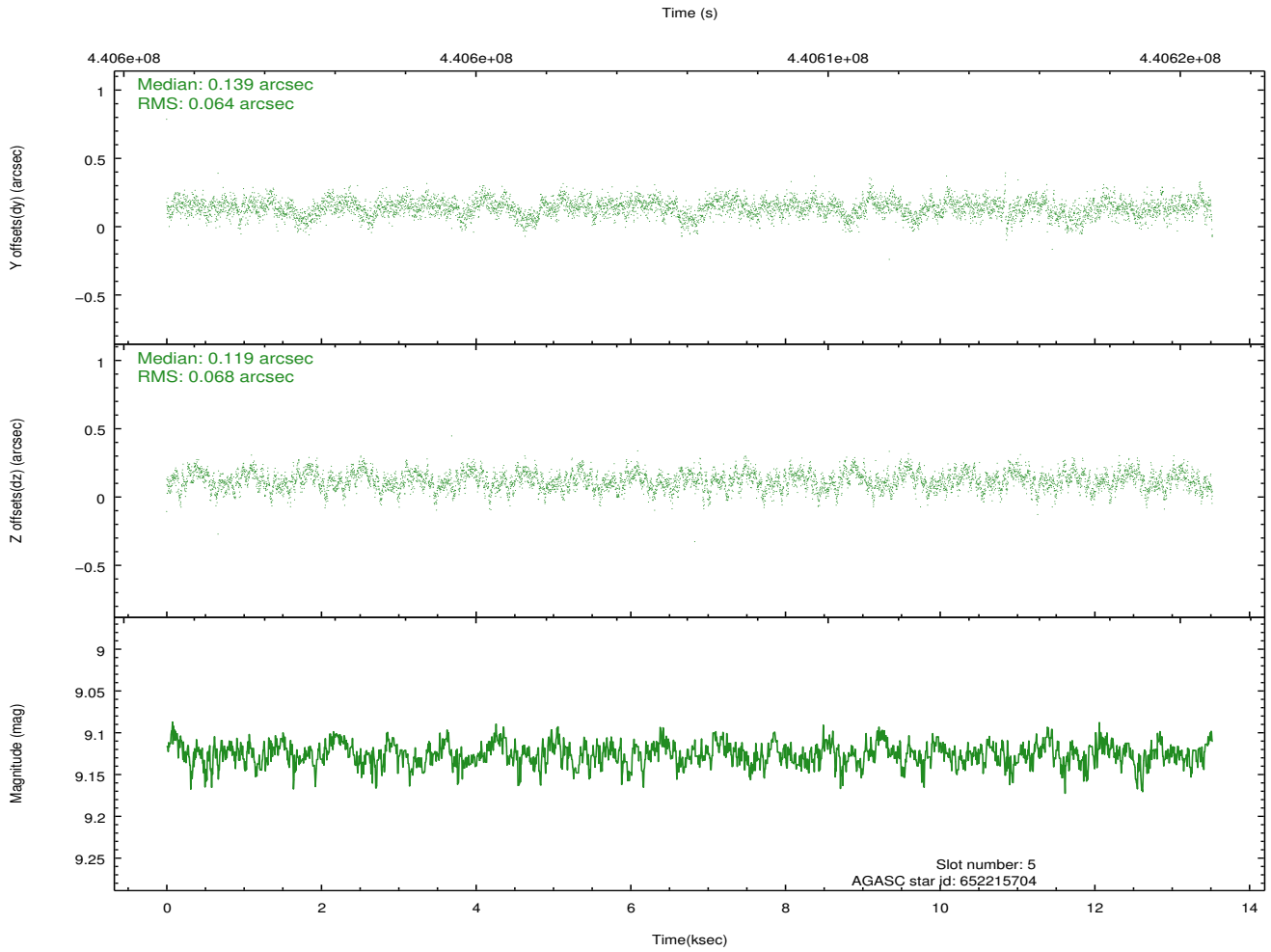
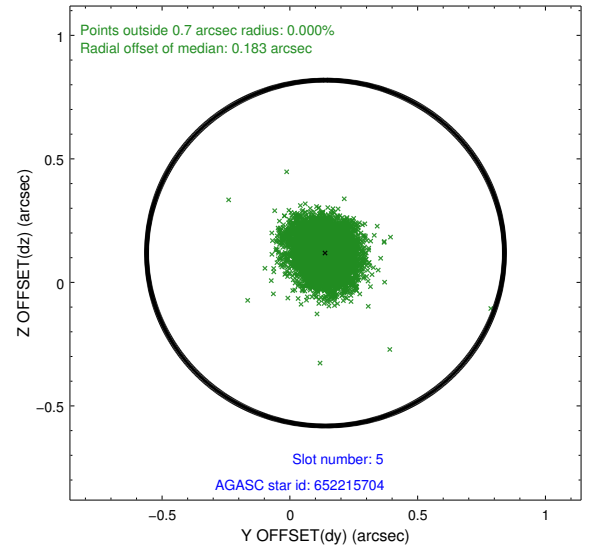
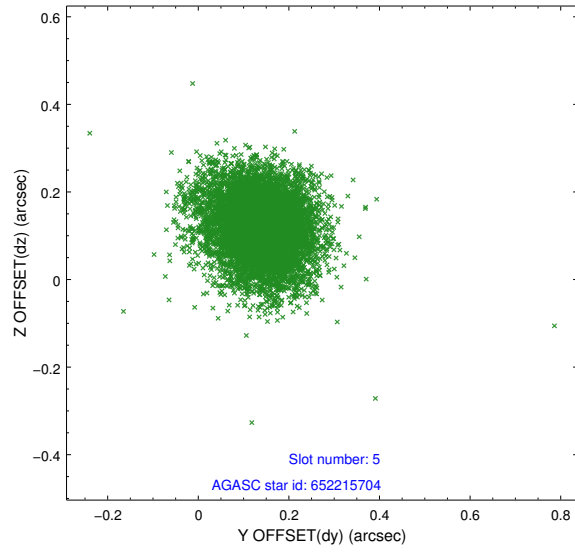
### 2.4.1 Slot 3



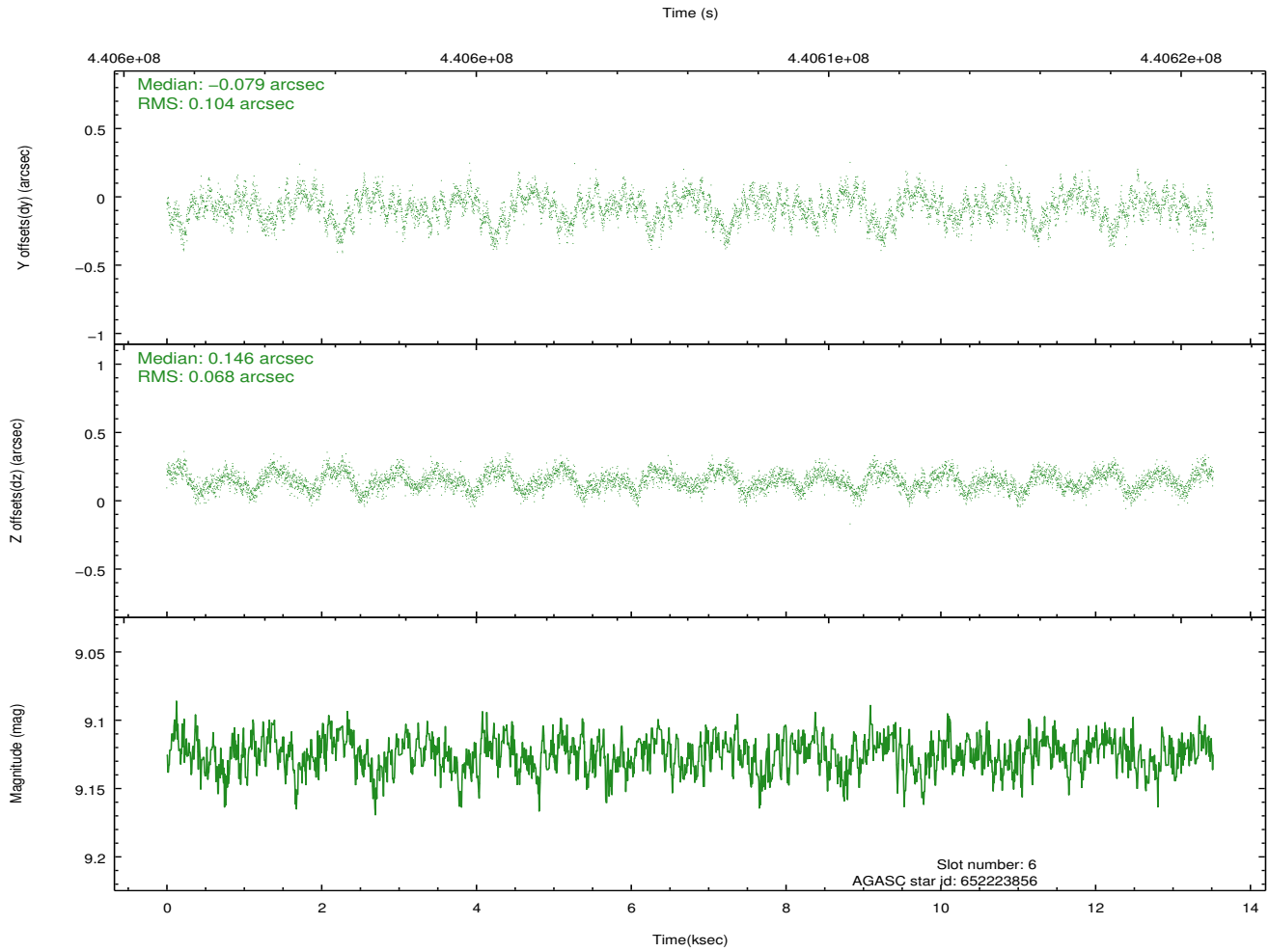
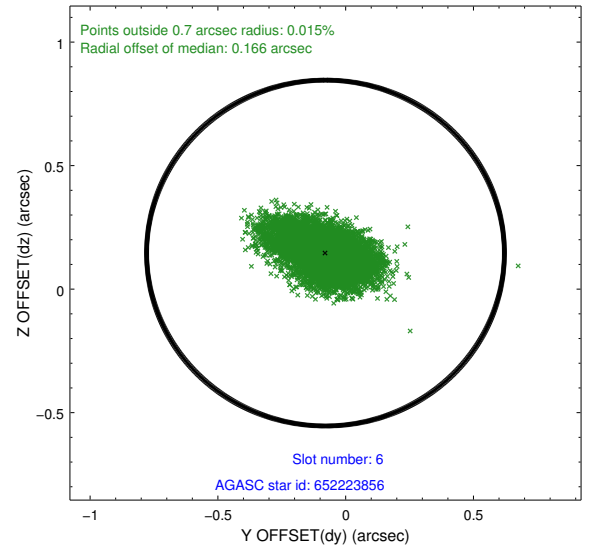
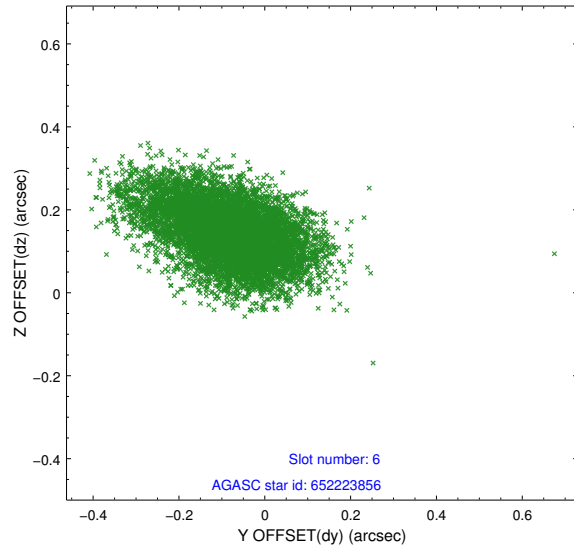
## 2.4.2 Slot 4



### 2.4.3 Slot 5

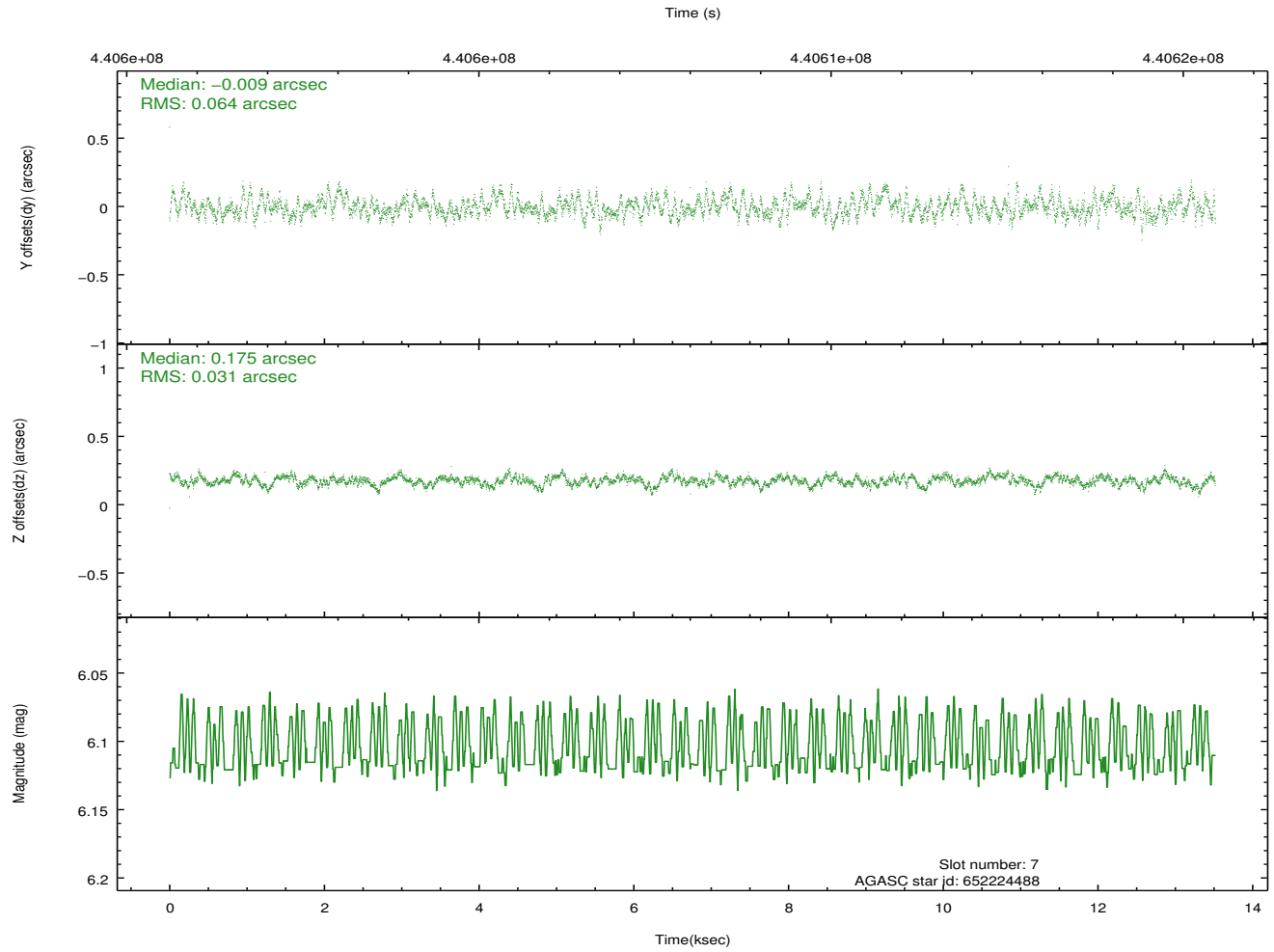
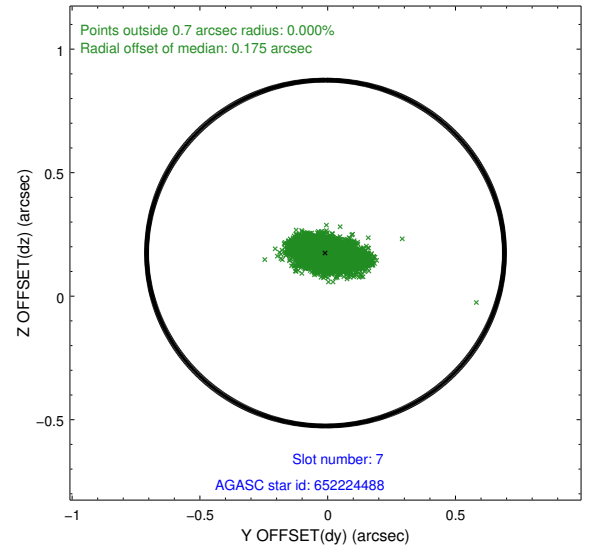
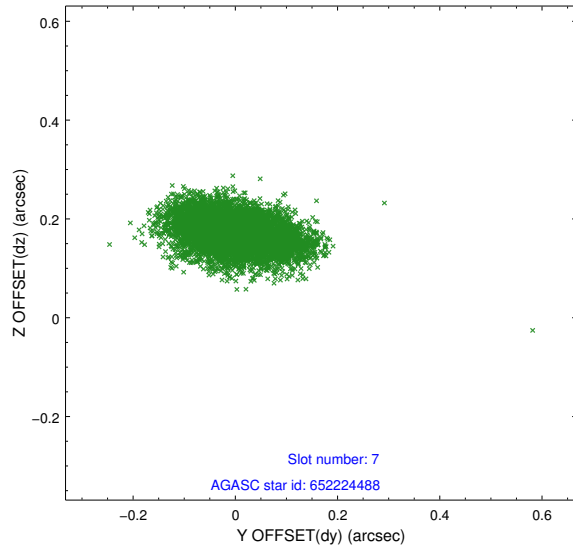


## 2.4.4 Slot 6



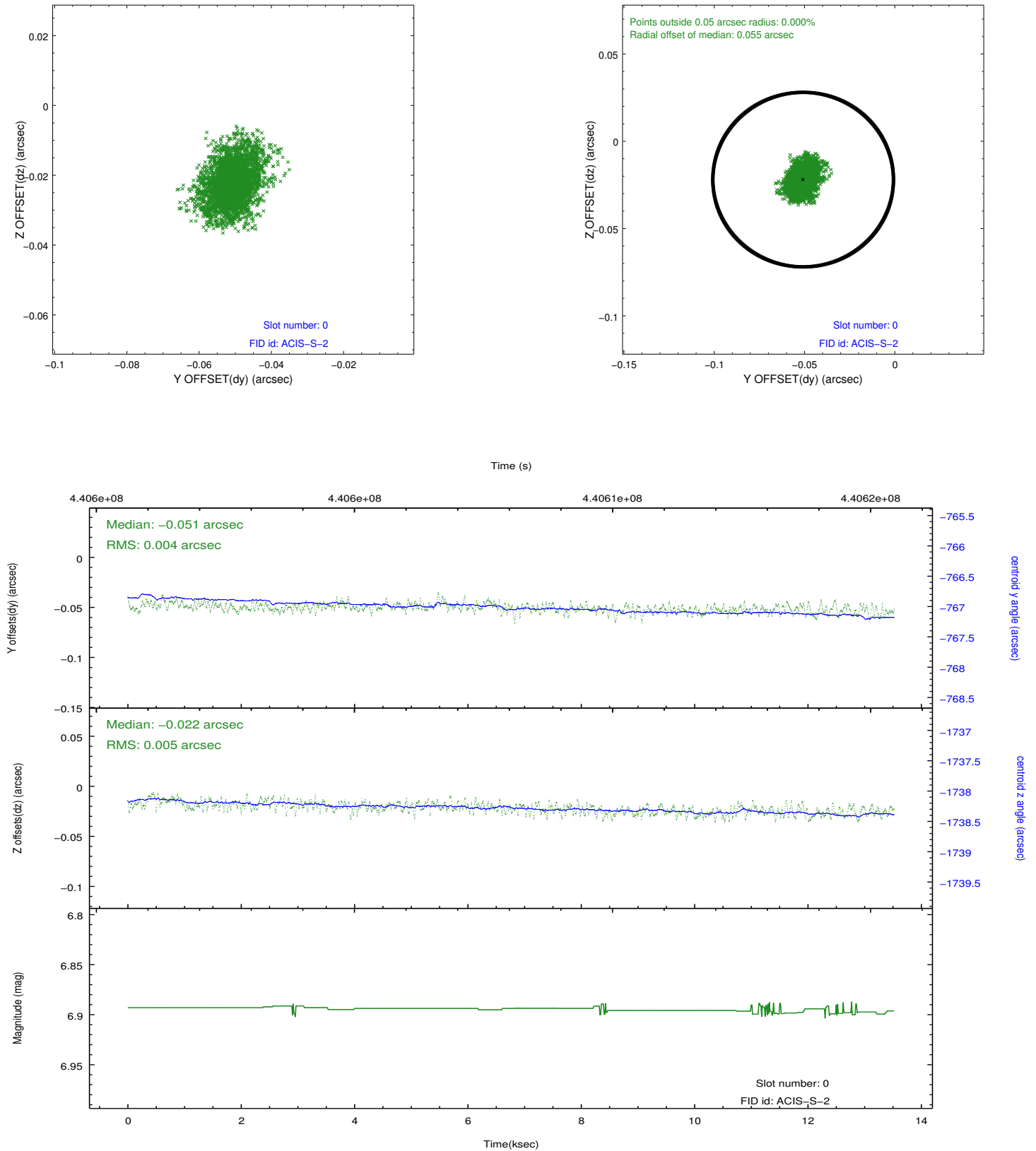


## 2.4.5 Slot 7

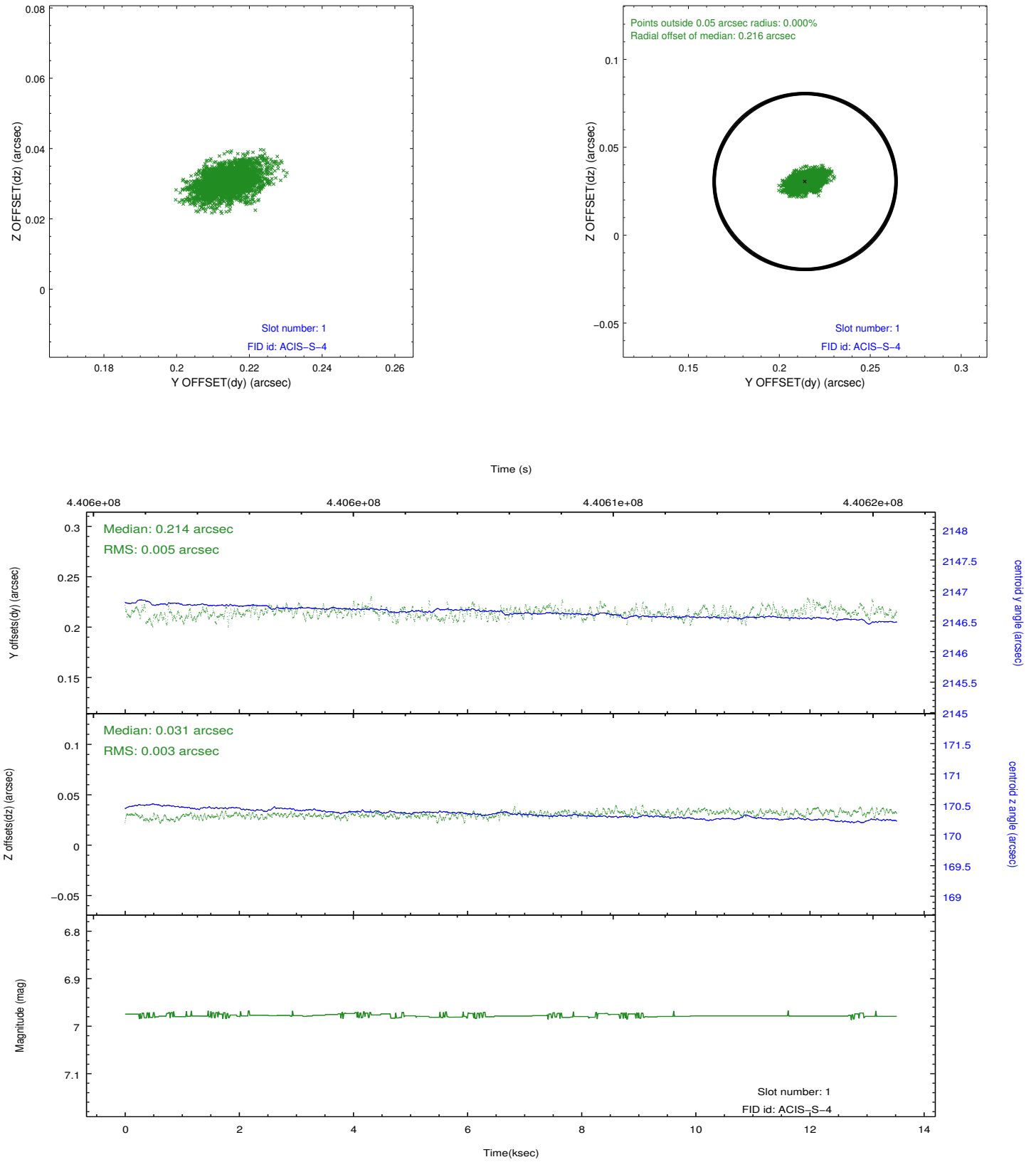


## 2.5 FID Slots

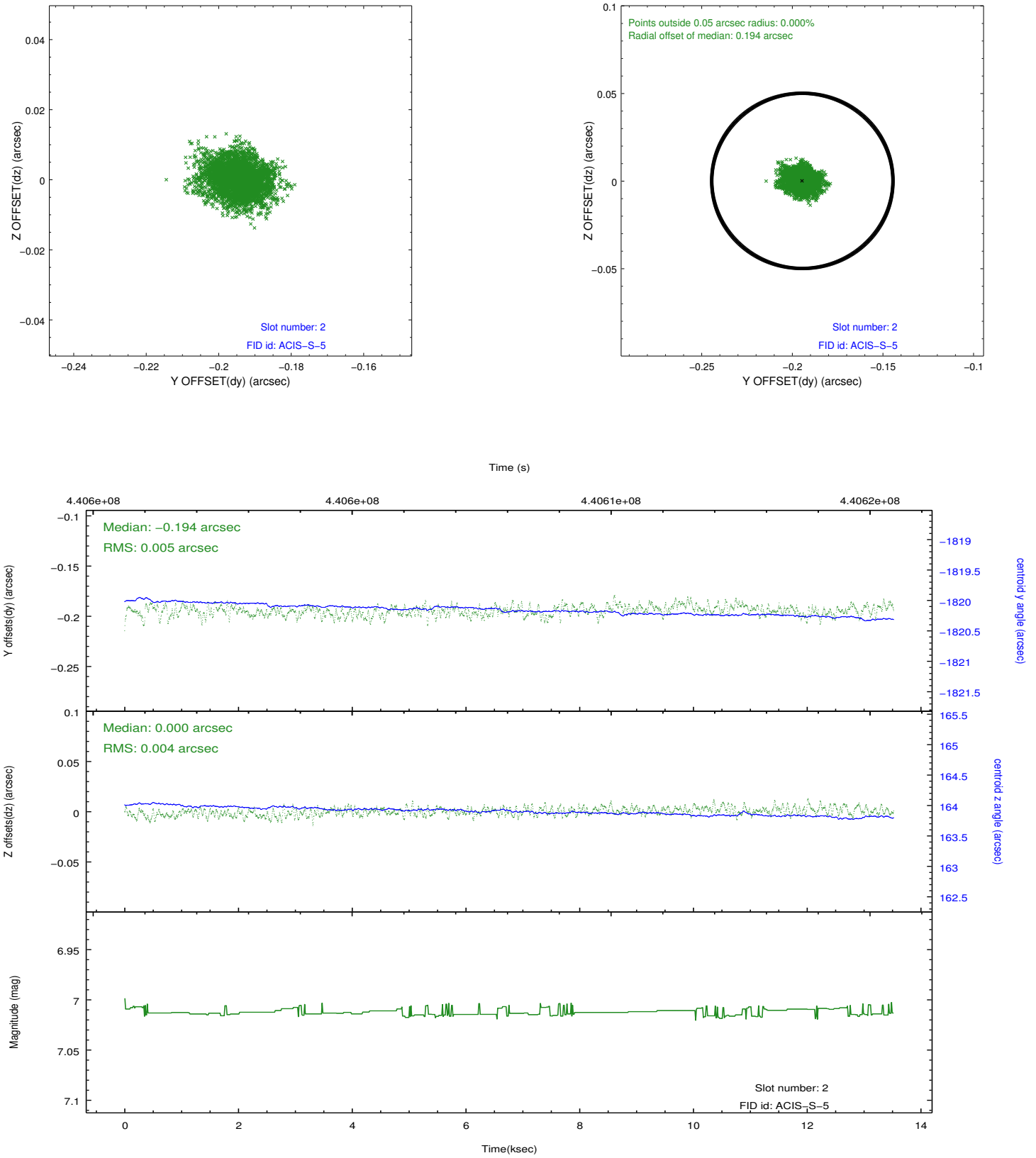
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.106053595424

### A.2 Comments