

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12765 - L2 Version 2  
Chandra X-Ray Center

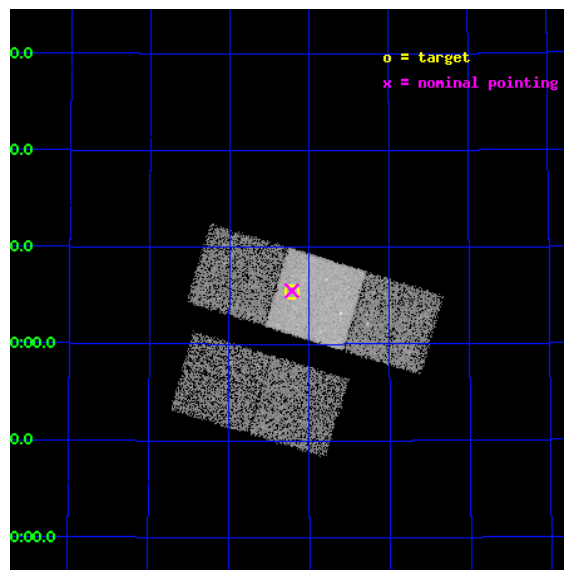
L2 Processing Date : Feb 22 2012

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# 1 Front

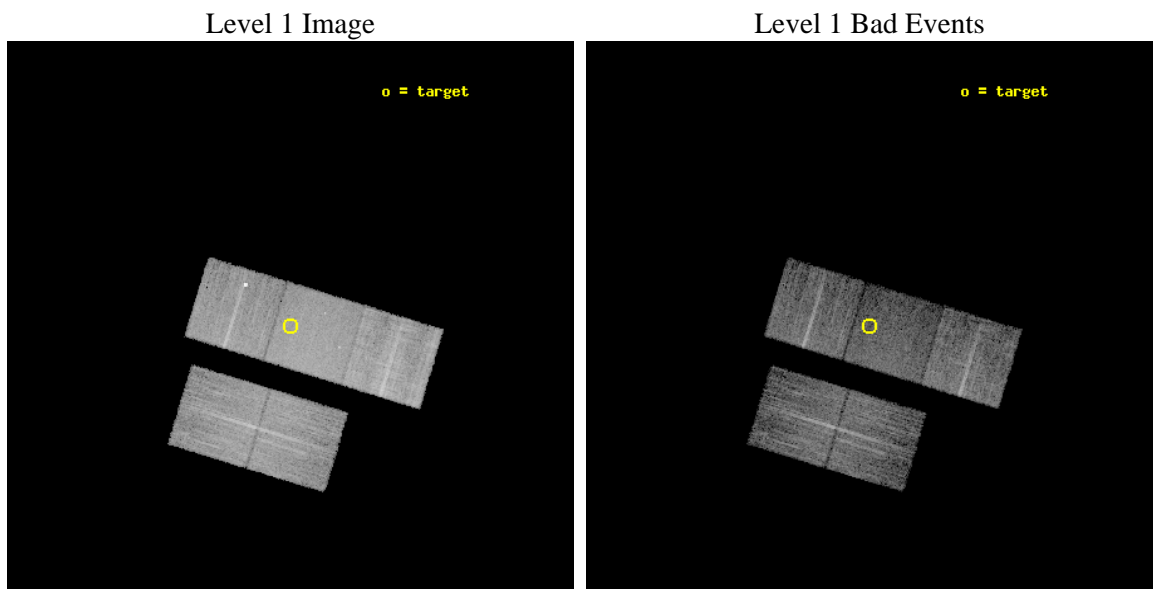
seq_num	702401	Sequence number
obs_id	12765	Observation id
title	X-ray Properties of 2MASS Selected BALQSOs	Proposal title
observer	Dr. Xinyu Dai	Principal investigator
object	SDSSJ101012.65+560520.5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.552917	Observer's specified target RA [deg]
dec_targ	56.089056	Observer's specified target Dec [deg]
ra_nom	152.55447051295	Nominal RA [deg]
dec_nom	56.092037842782	Nominal Dec [deg]
roll_nom	17.015947902534	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9436.4000725746	Sum of GTIs [s]
livetime	9313.1065586498	Livetime [s]
ontime2	9436.3872458935	Sum of GTIs [s]
ontime3	9436.4000725746	Sum of GTIs [s]
ontime6	9436.4000725746	Sum of GTIs [s]
ontime7	9436.4000725746	Sum of GTIs [s]
ontime8	9433.2590523362	Sum of GTIs [s]
l2events	60829	Number of level 2 events



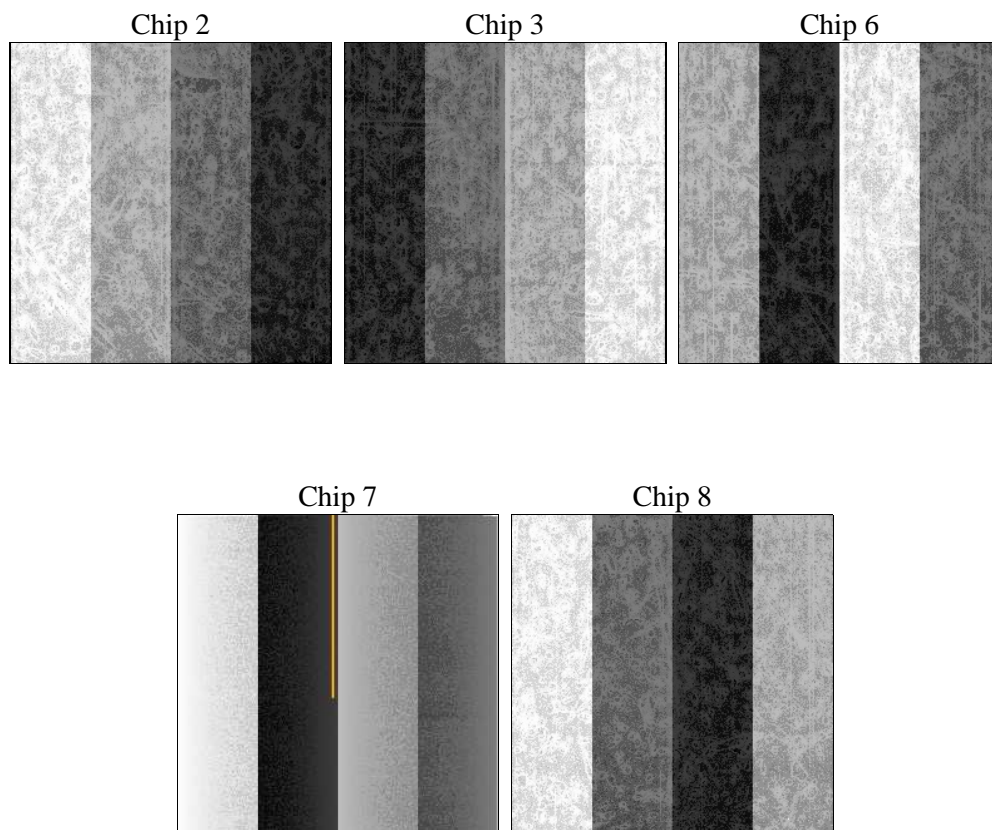
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9400.539000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	9436.4000725746	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	9436.3872458935	Sum of GTIs [s]
date	2012-02-22T07:02:03	Date and time of file creation	ontime3	9436.4000725746	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9436.4000725746	Sum of GTIs [s]
			ontime7	9436.4000725746	Sum of GTIs [s]
			ontime8	9433.2590523362	Sum of GTIs [s]
			l1events	366746	Number of level 1 events

### 2.1.4 Events

	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	64055	63411	67901	79675	91704
rejected events	57283	56695	57381	43820	64378
rejected %	89%	89%	84%	54%	70%

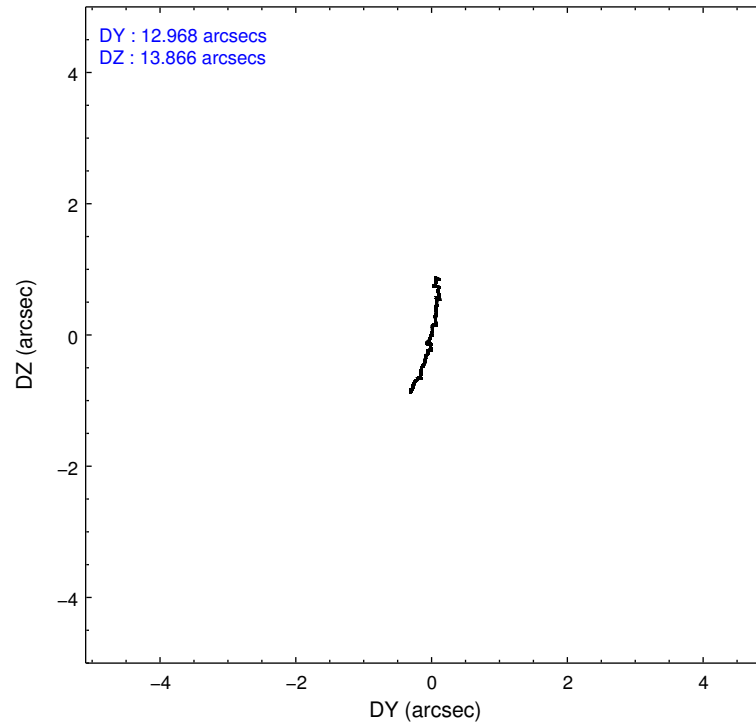
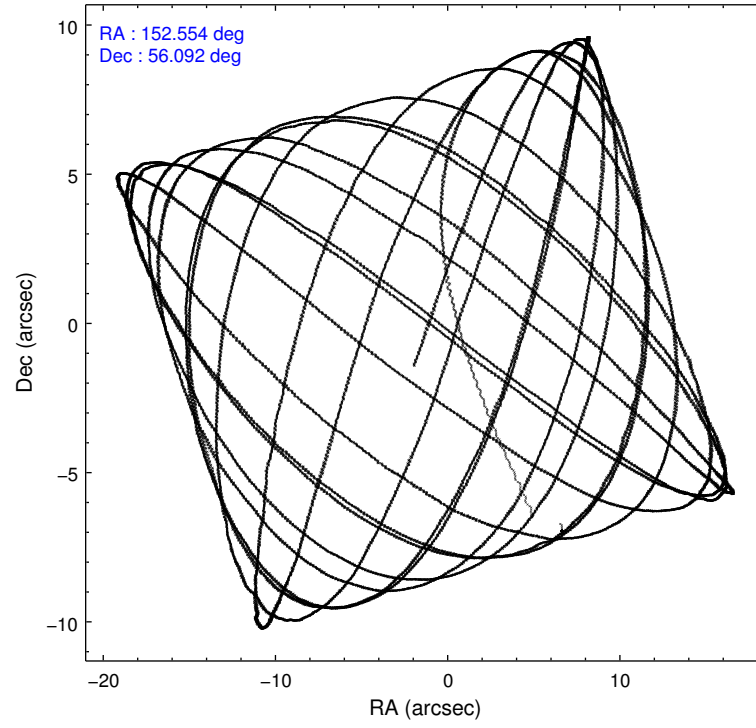
	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	2601	2396	5556	3388	8296
	4%	3%	8%	4%	9%
grade 1 events	32	44	37	89	87
	0%	0%	0%	0%	0%
grade 2 events	1593	1483	1663	7546	6002
	2%	2%	2%	9%	6%
grade 3 events	677	725	860	3145	3083
	1%	1%	1%	3%	3%
grade 4 events	671	755	823	3072	3016
	1%	1%	1%	3%	3%
grade 5 events	2381	2876	2944	8128	4320
	3%	4%	4%	10%	4%
grade 6 events	1233	1360	1628	18734	6937
	1%	2%	2%	23%	7%
grade 7 events	54867	53772	54390	35573	59963
	85%	84%	80%	44%	65%

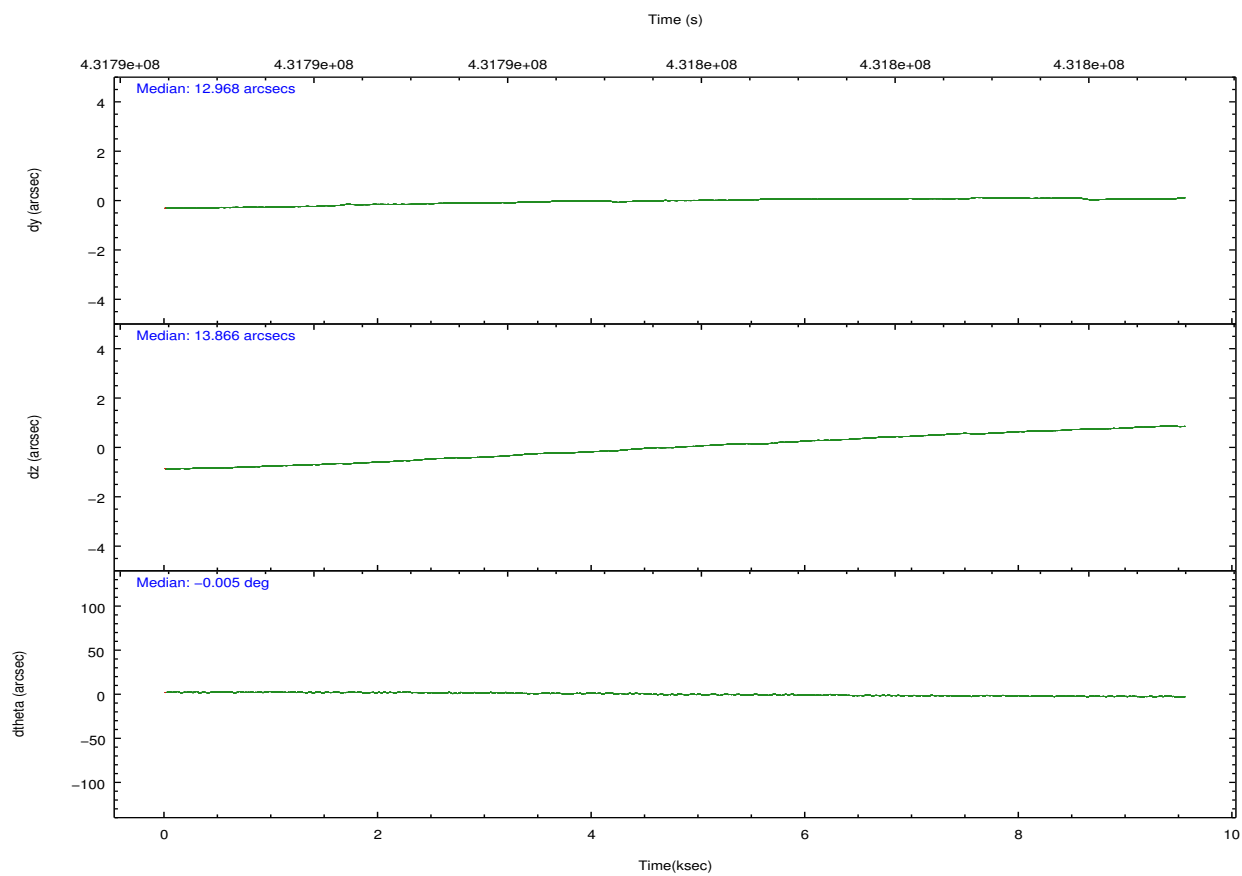
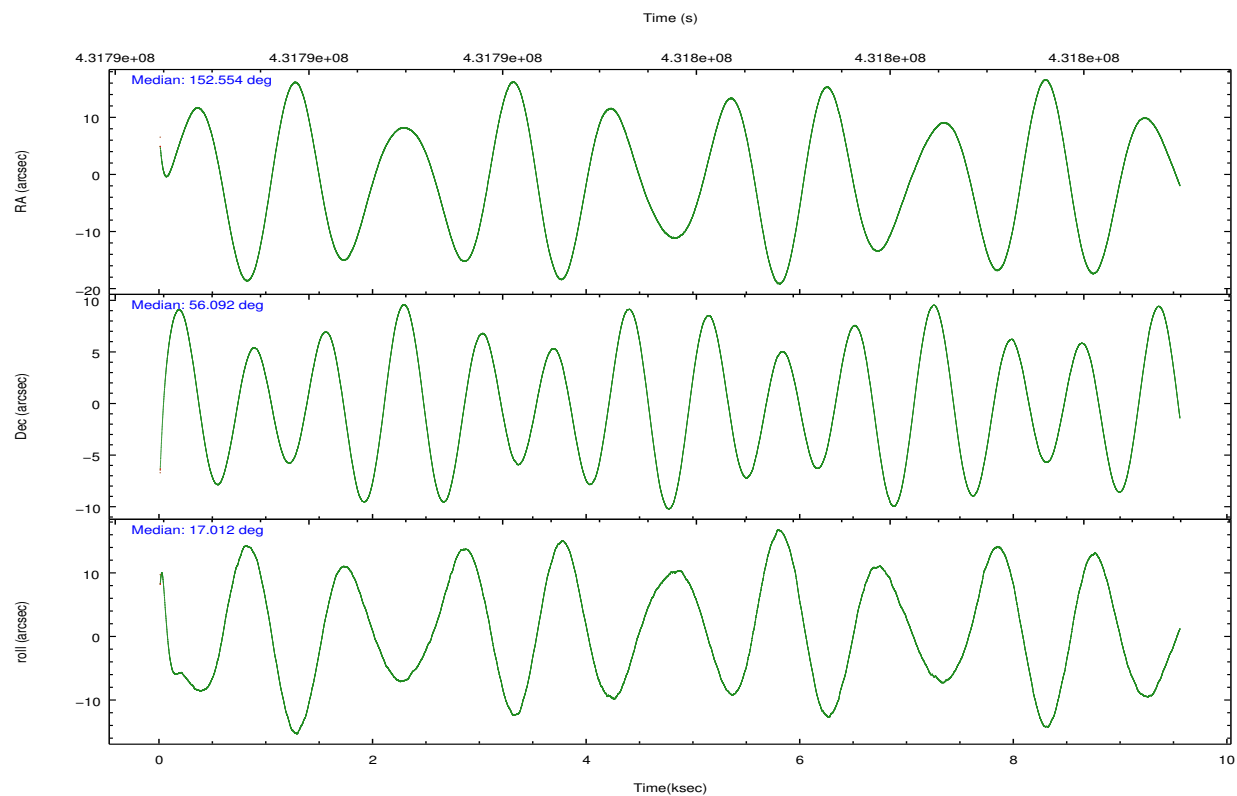


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	152.521457	152.5544705129493	CCD I2 on	O4	Y
[deg] Pointing Dec	56.071721	56.09203784278245	CCD I3 on	O3	Y
[deg] Pointing Roll	16.886696	17.01594790253394	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O1	Y
[s] Observation start time (MET)	431791103.184000	431790001.2338	CCD S5 on	N	N
Observation start date	2011-09-07T13:57:17	2011-09-07T13:40:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	431800504.184000	431800729.90936	On-chip summing requested	N	N
Observation end date	2011-09-07T16:33:58	2011-09-07T16:38:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



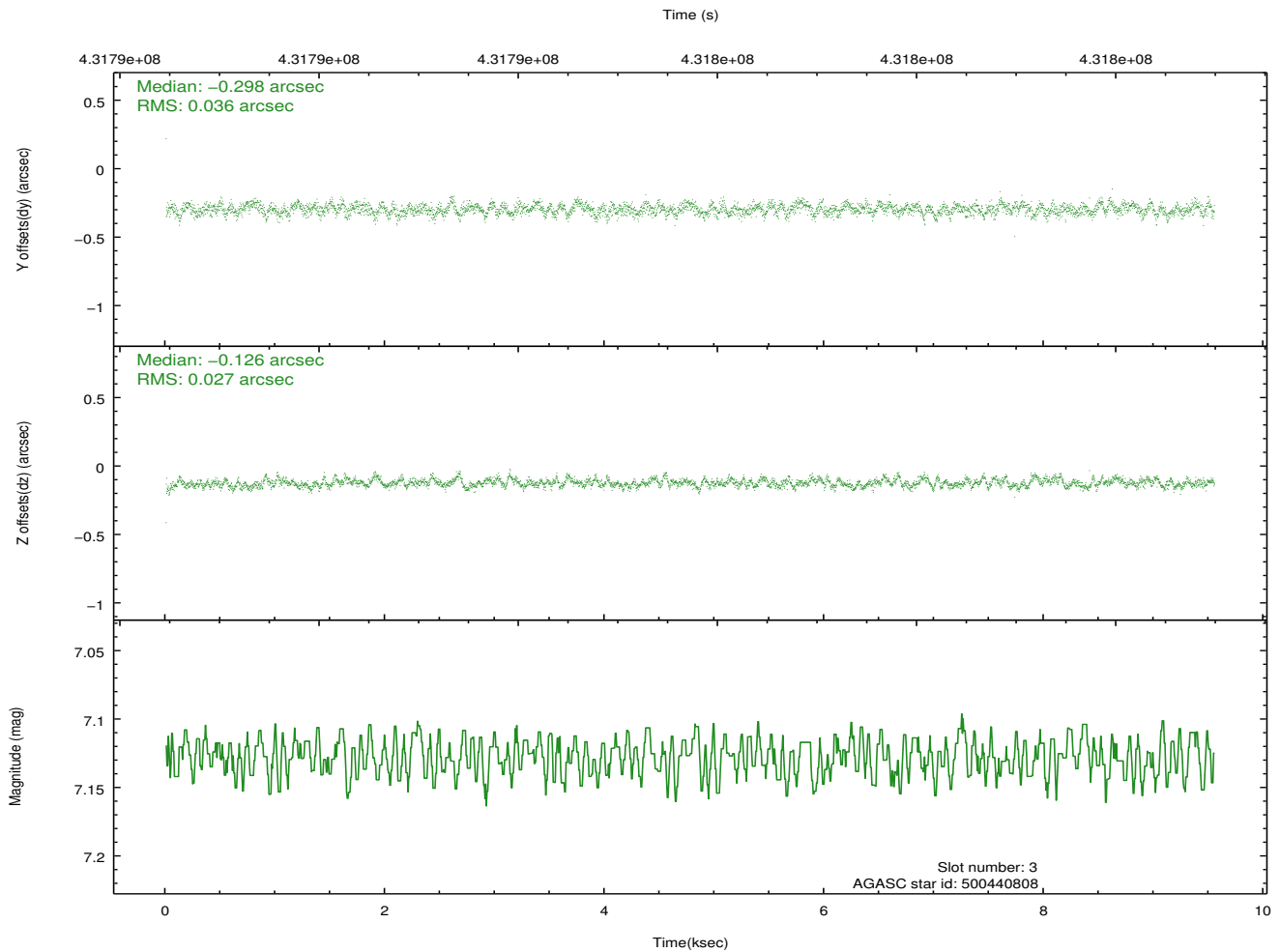
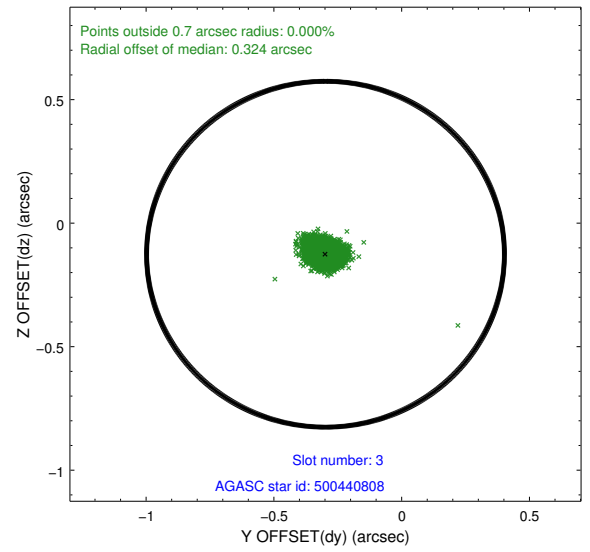
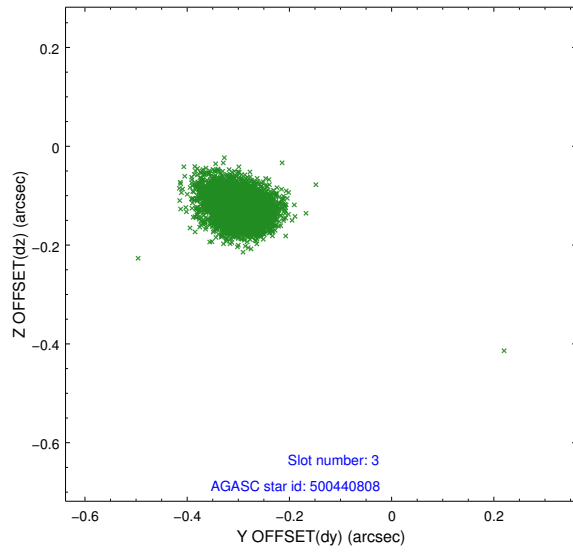


### Slot Statistics

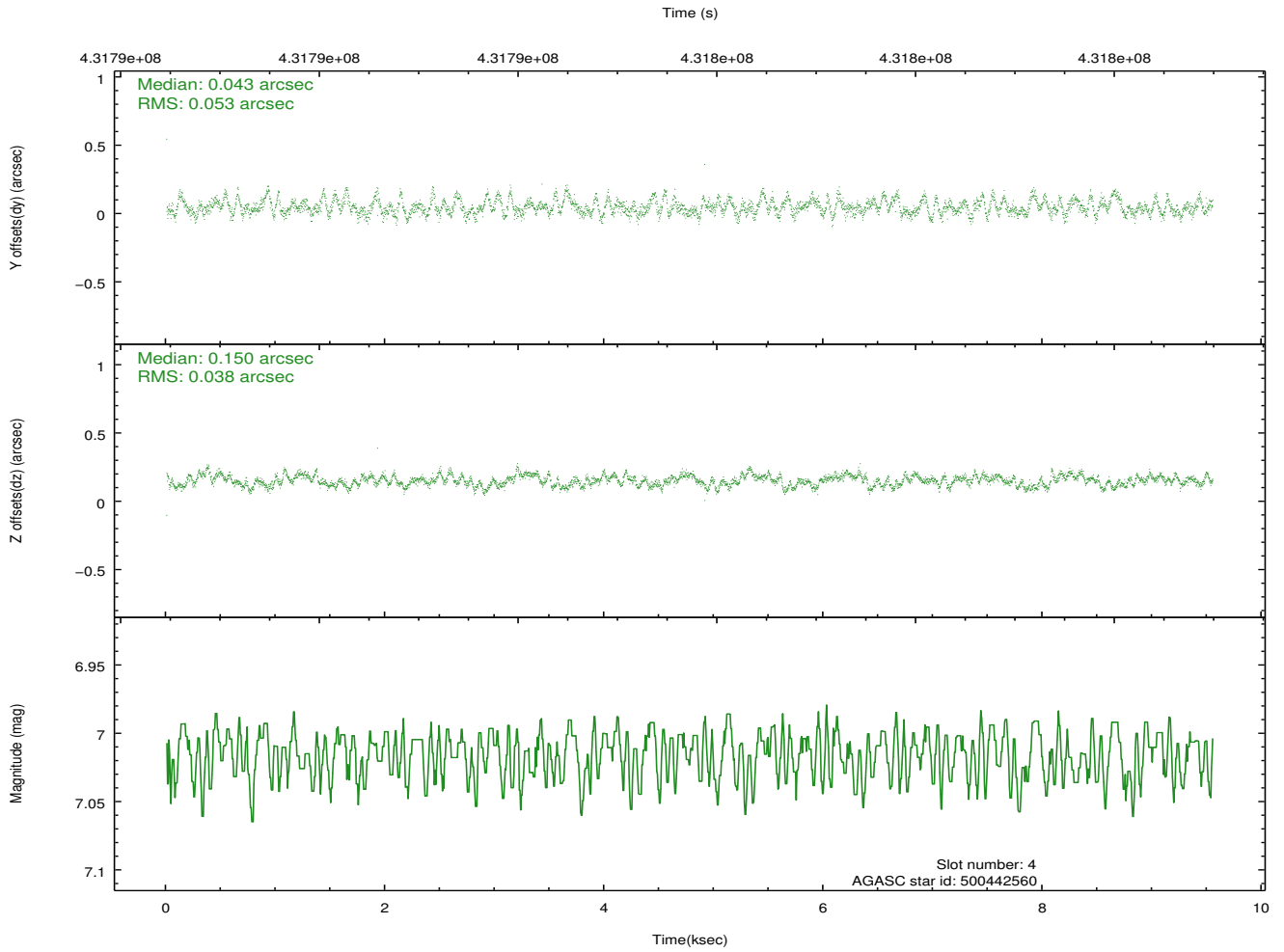
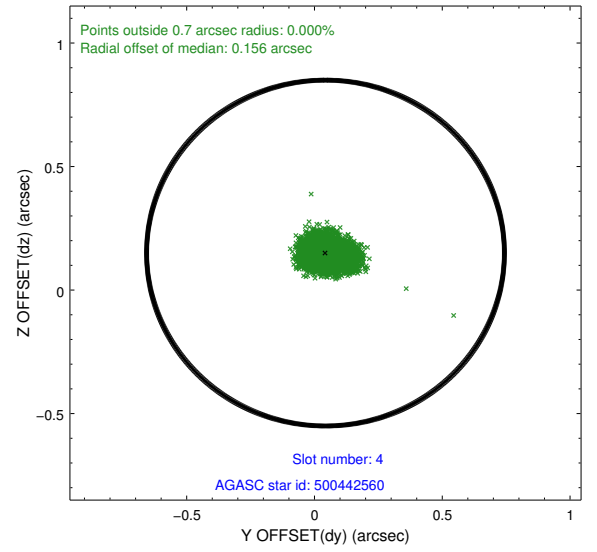
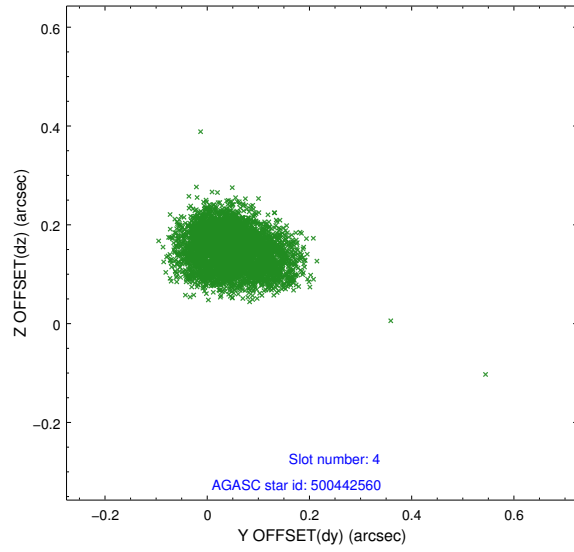
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.09	2330	0.073	-0.020	0.017	0.025	0.000000	0.000000	930.25	-1730.76
1	FID	ACIS-S-4	7.07	2330	0.141	-0.015	0.019	0.027	0.000000	0.000000	2148.05	172.82
2	FID	ACIS-S-5	7.12	2329	-0.239	0.048	0.011	0.018	0.000000	0.000000	-1818.20	167.13
3	GUIDE	500440808	7.13	4659	-0.298	-0.126	0.047	0.077	153.318598	55.906349	1369.16	-1028.07
4	GUIDE	500442560	7.02	4658	0.043	0.150	0.069	0.112	151.619747	55.769496	-2059.07	-499.50
5	GUIDE	500444064	8.43	4658	0.278	-0.066	0.068	0.112	152.441304	55.541864	-712.87	-1778.66
6	GUIDE	500440664	8.25	4659	0.063	-0.068	0.068	0.109	151.710049	55.657613	-2007.16	-939.29
7	GUIDE	500444904	8.90	4654	-0.095	0.113	0.088	0.150	153.247399	55.862001	1186.24	-1141.08

## 2.4 Star Slots

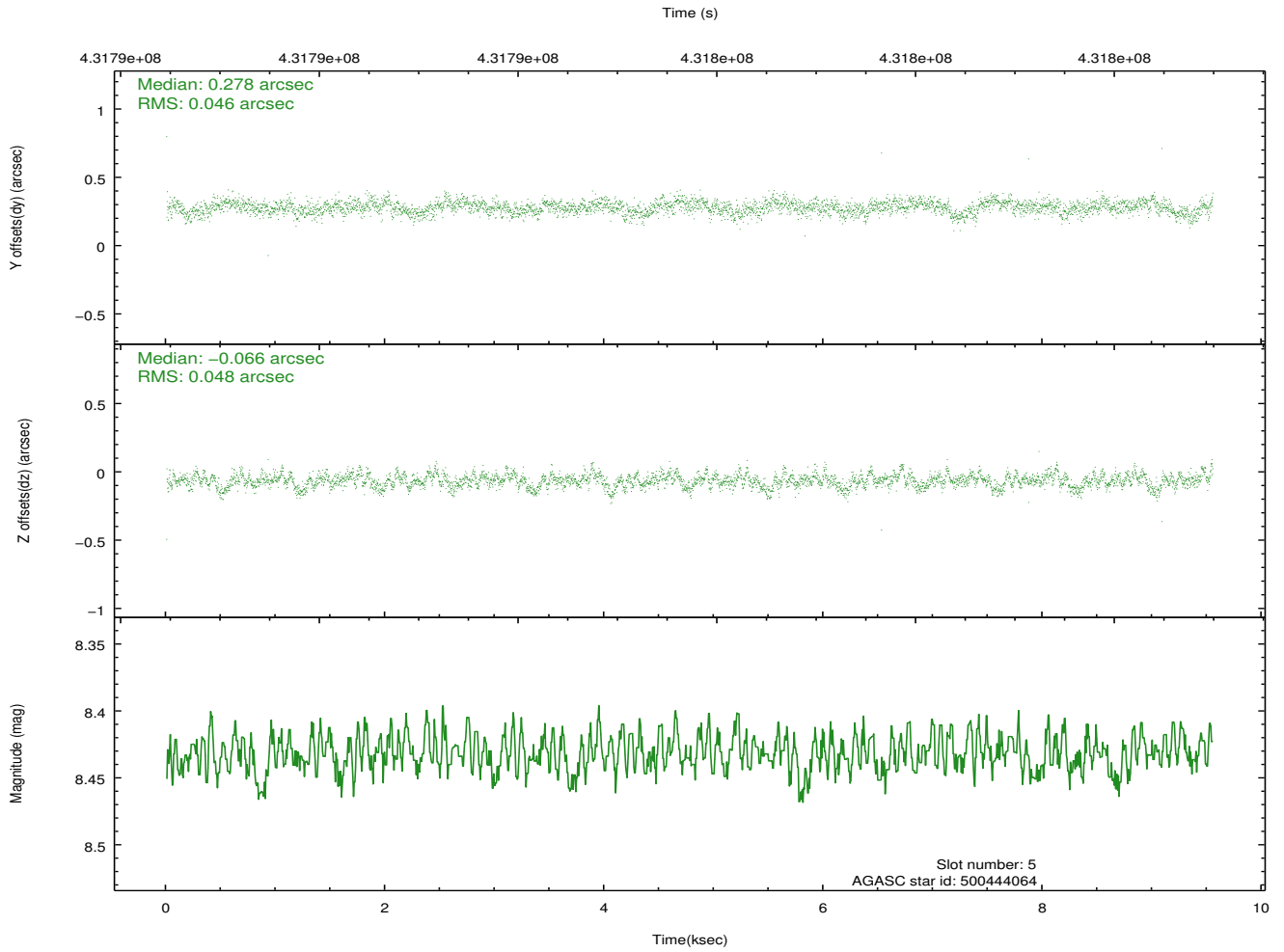
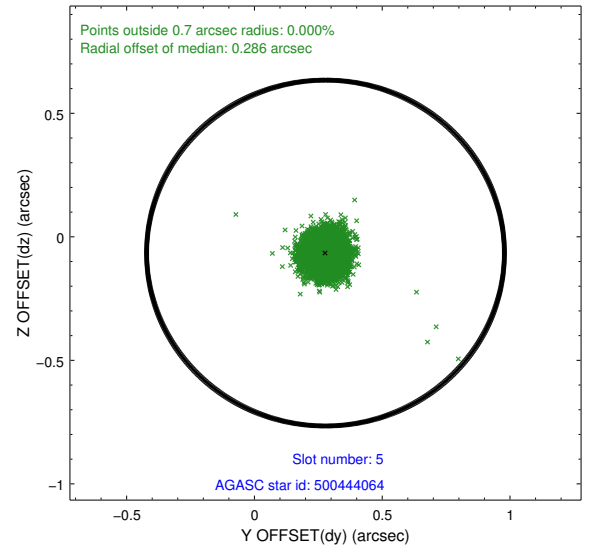
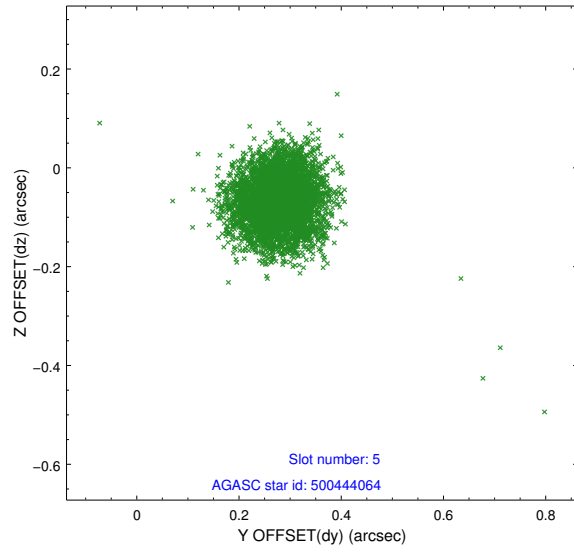
### 2.4.1 Slot 3



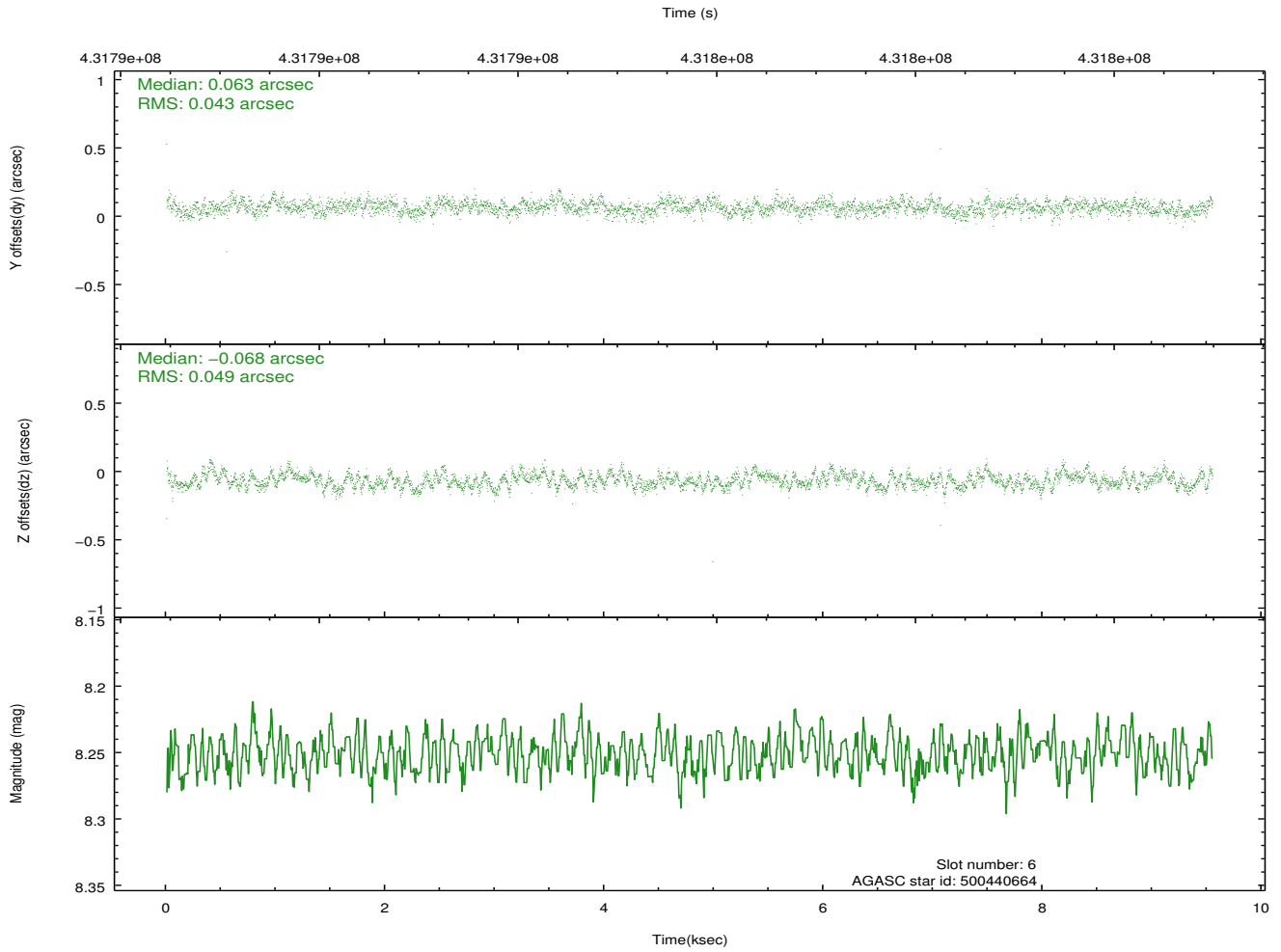
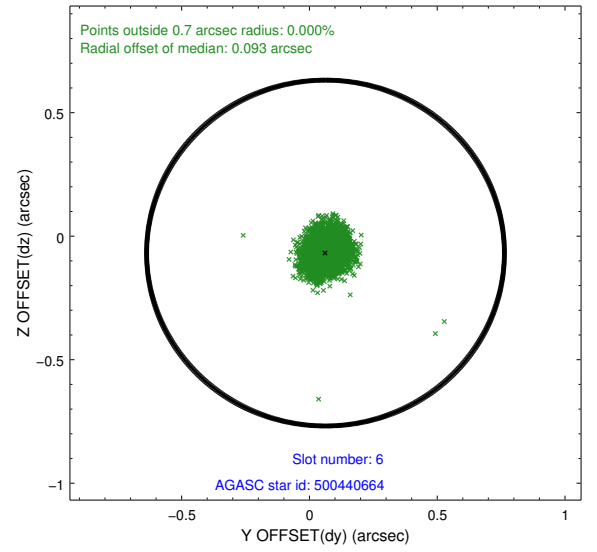
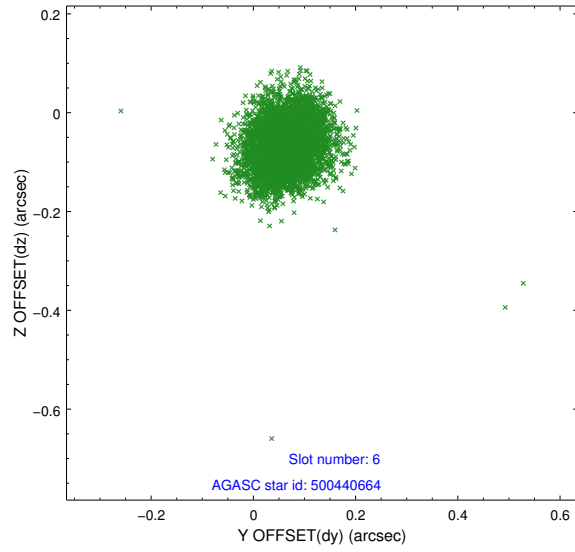
## 2.4.2 Slot 4



### 2.4.3 Slot 5

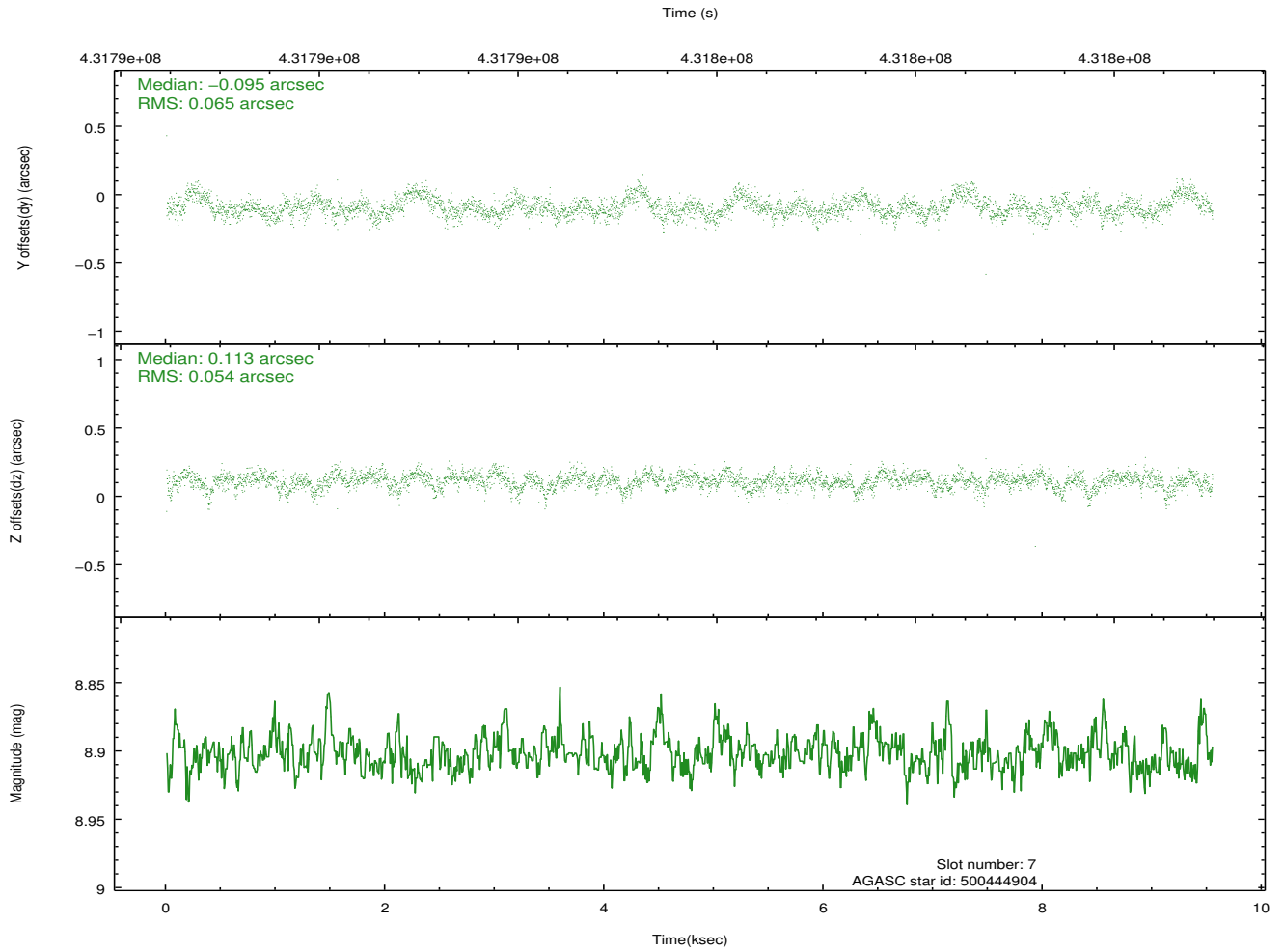
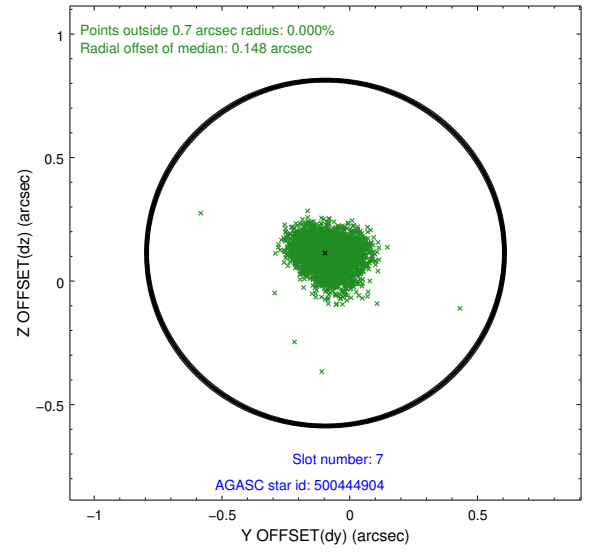
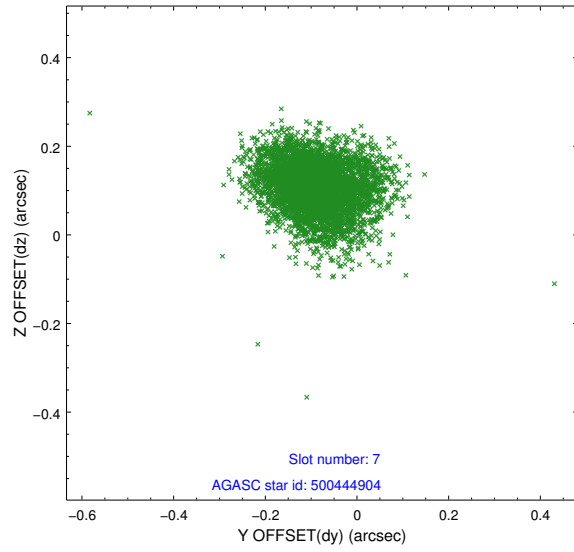


## 2.4.4 Slot 6



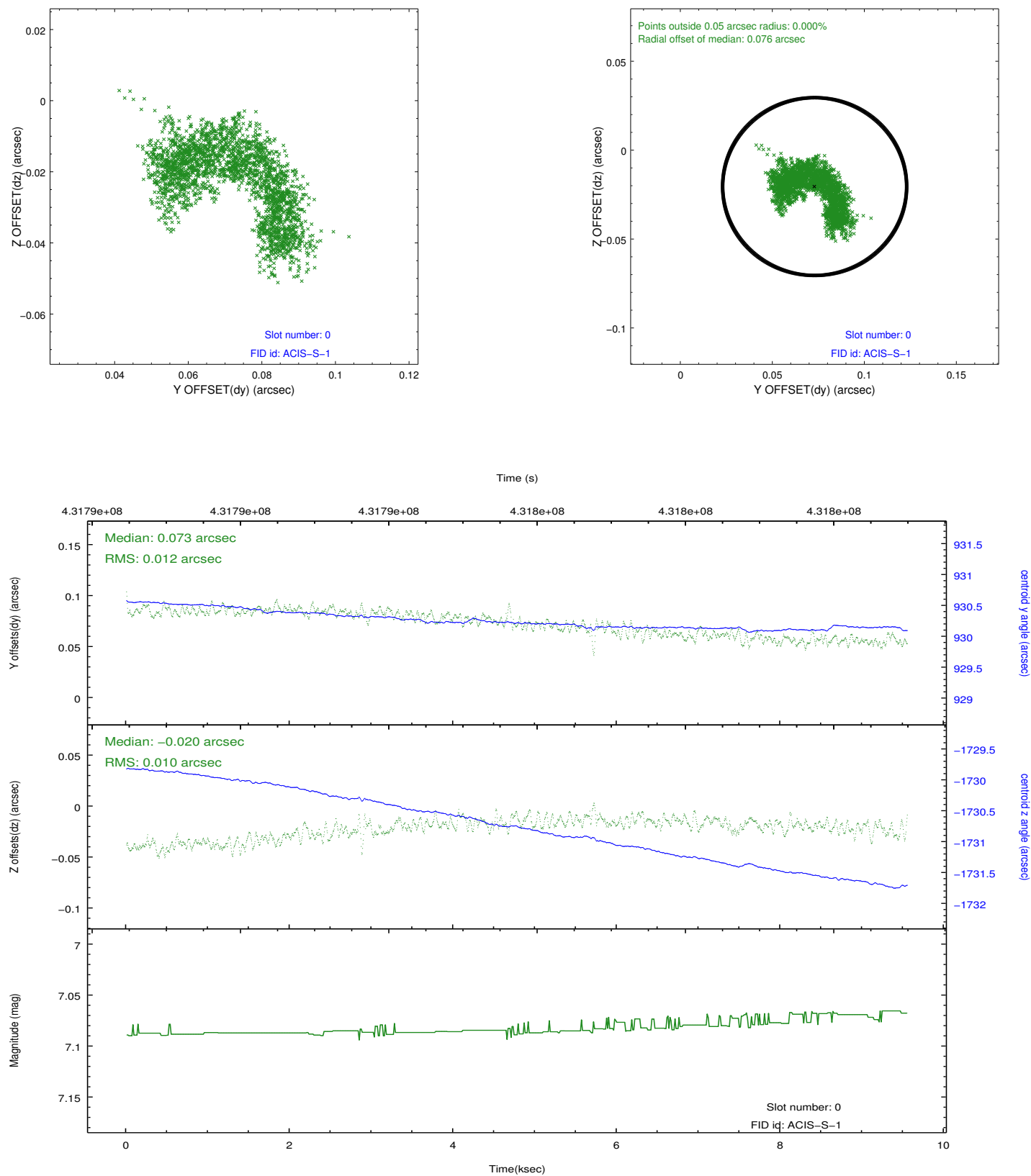


## 2.4.5 Slot 7

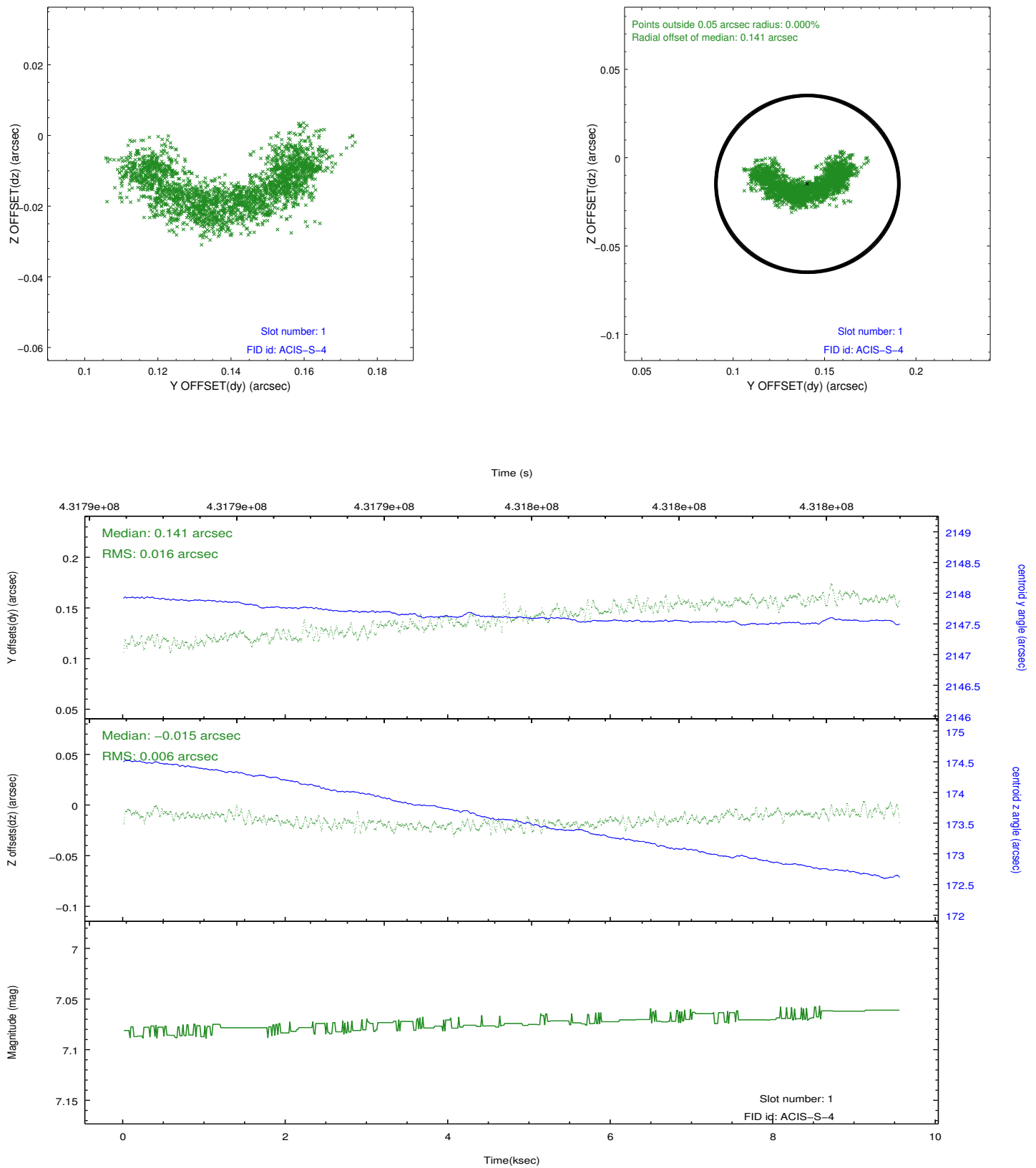


## 2.5 FID Slots

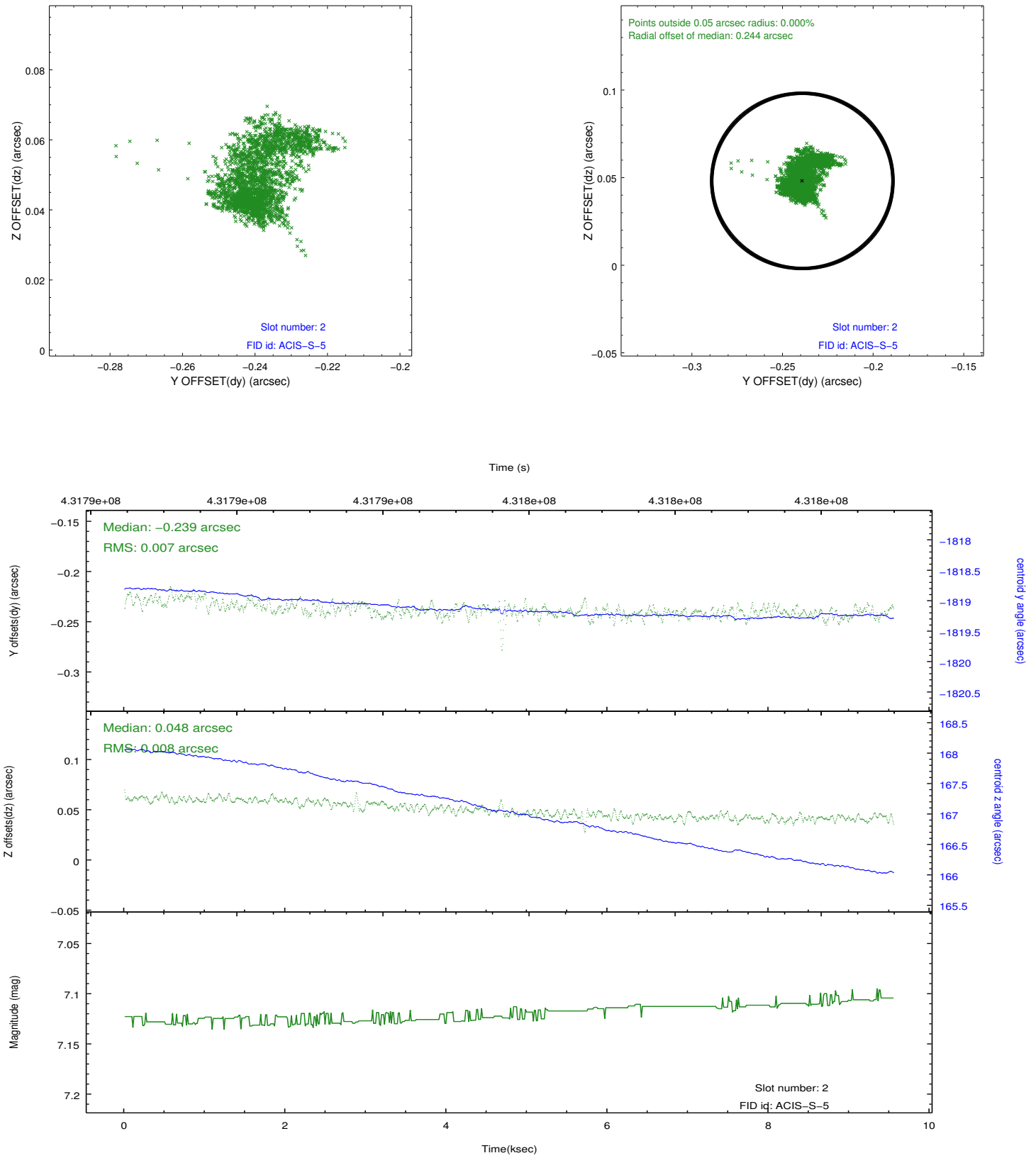
### 2.5.1 Slot 0



## 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)	2012.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.4364000725746

### A.2 Comments