

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4065 - L2 Version 3  
Chandra X-Ray Center

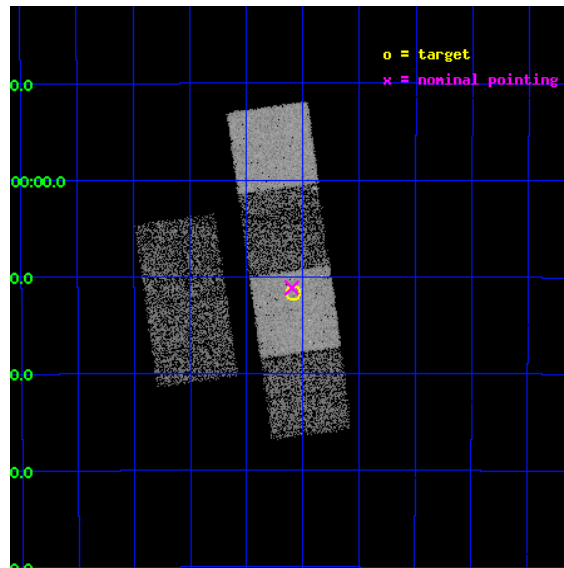
L2 Processing Date : Nov 3 2012

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# 1 Front

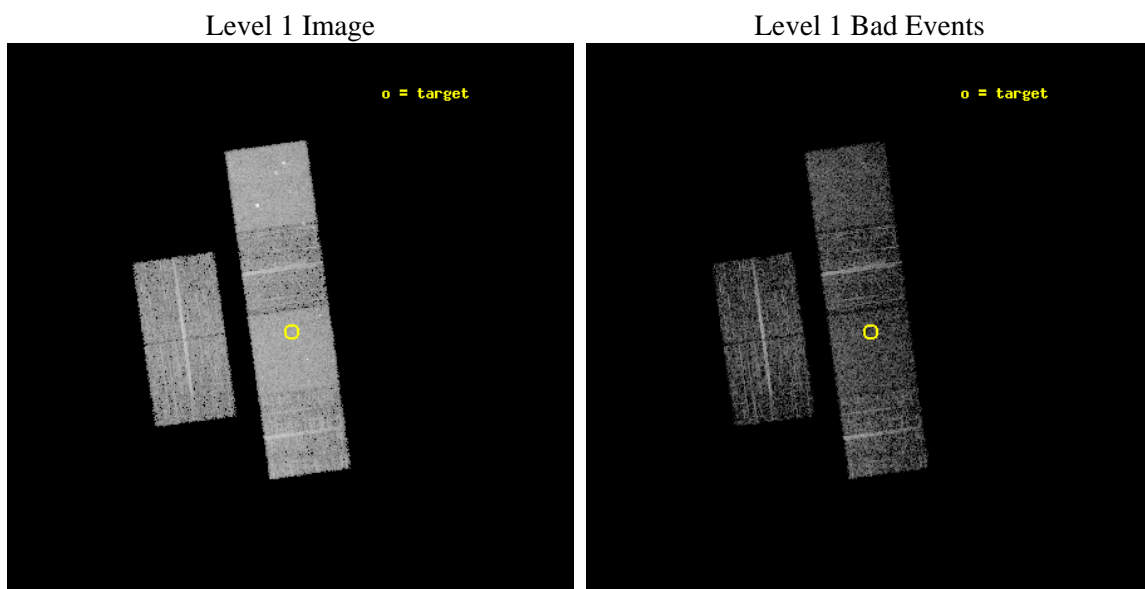
seq_num	700744	Sequence number
obs_id	4065	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z > 4$	Proposal titl
observer	Dr Cristian Vignali	Principal investigator
object	BR 0353-3820	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.770417	Observer's specified target RA [deg]
dec_targ	-38.195083	Observer's specified target Dec [deg]
ra_nom	58.774282857039	Nominal RA [deg]
dec_nom	-38.1858433288	Nominal Dec [deg]
roll_nom	82.105723189144	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4115.1999846697	Sum of GTIs [s]
livetime	4063.0908445879	Livetime [s]
ontime2	4115.1999846697	Sum of GTIs [s]
ontime3	4115.1999846697	Sum of GTIs [s]
ontime5	4115.1999846697	Sum of GTIs [s]
ontime6	4115.1999846697	Sum of GTIs [s]
ontime7	4115.1999846697	Sum of GTIs [s]
ontime8	4115.1999846697	Sum of GTIs [s]
l2events	57746	Number of level 2 events



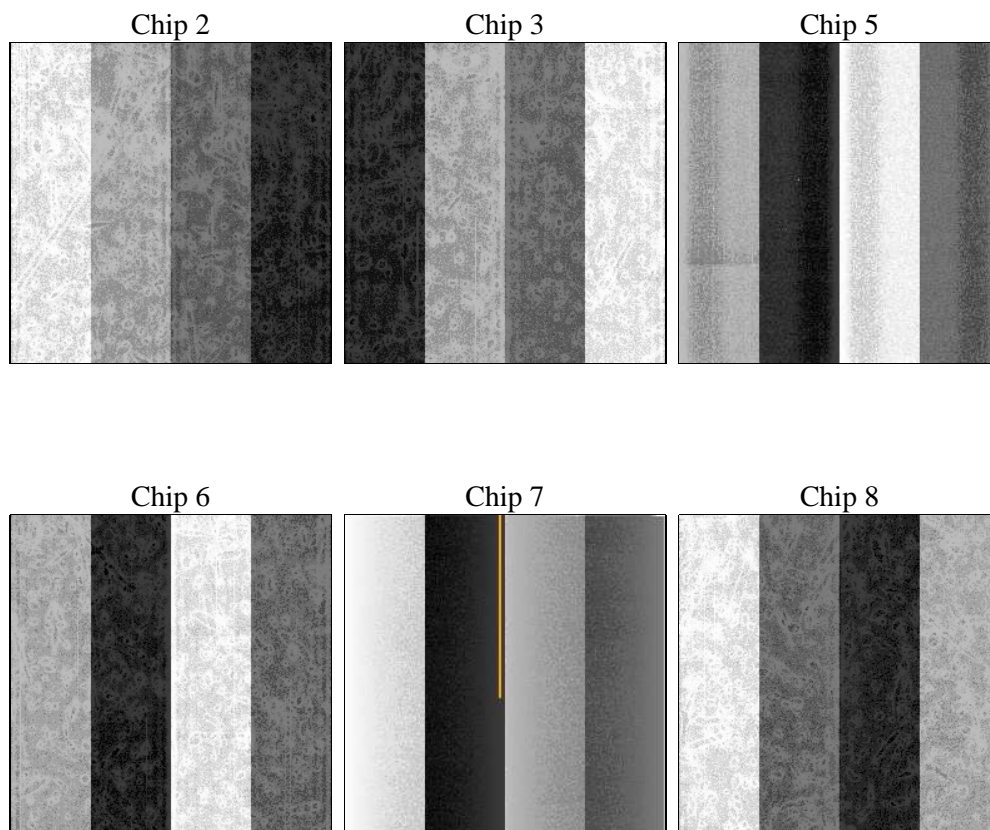
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3955.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4115.1999846697	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4115.1999846697	Sum of GTIs [s]
date	2012-11-03T19:14:11	Date and time of file creation	ontime3	4115.1999846697	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4115.1999846697	Sum of GTIs [s]
			ontime6	4115.1999846697	Sum of GTIs [s]
			ontime7	4115.1999846697	Sum of GTIs [s]
			ontime8	4115.1999846697	Sum of GTIs [s]
			l1events	220324	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29631	28402	50080	28779	45905	37527	grade 0 events	2123	2105	3818	2277	2515	3331
rejected events	25903	24521	26064	24611	24617	29451		7%	7%	7%	7%	5%	8%
rejected %	87%	86%	52%	85%	53%	78%	grade 1 events	16	23	67	15	30	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	744	805	7496	855	4497	1763
								2%	2%	14%	2%	9%	4%
							grade 3 events	325	350	1253	345	2048	879
								1%	1%	2%	1%	4%	2%
							grade 4 events	360	362	1163	386	2061	876
								1%	1%	2%	1%	4%	2%
							grade 5 events	1126	1281	3253	1265	3643	1668
								3%	4%	6%	4%	7%	4%
							grade 6 events	570	636	12839	717	12317	2149
								1%	2%	25%	2%	26%	5%
							grade 7 events	24367	22840	20191	22919	18794	26840
								82%	80%	40%	79%	40%	71%

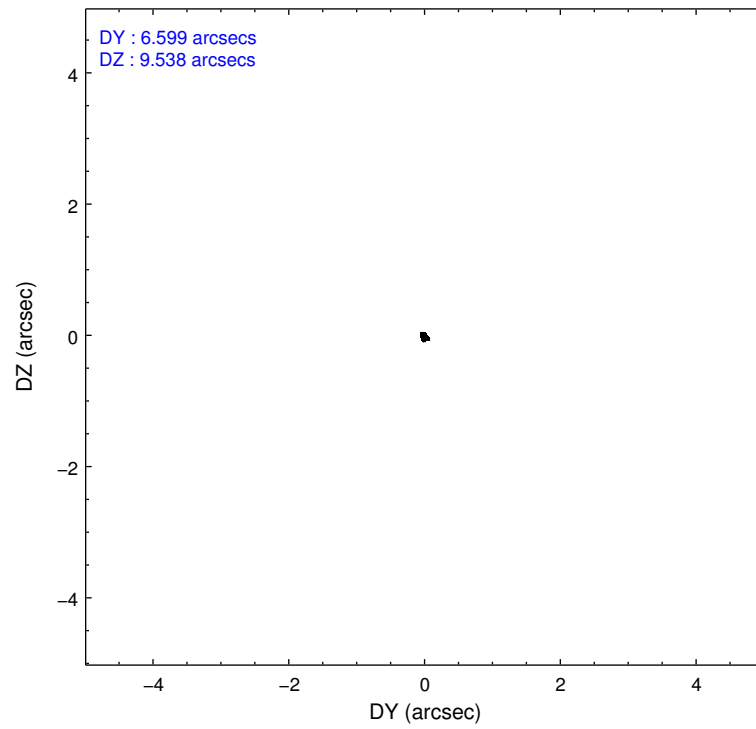
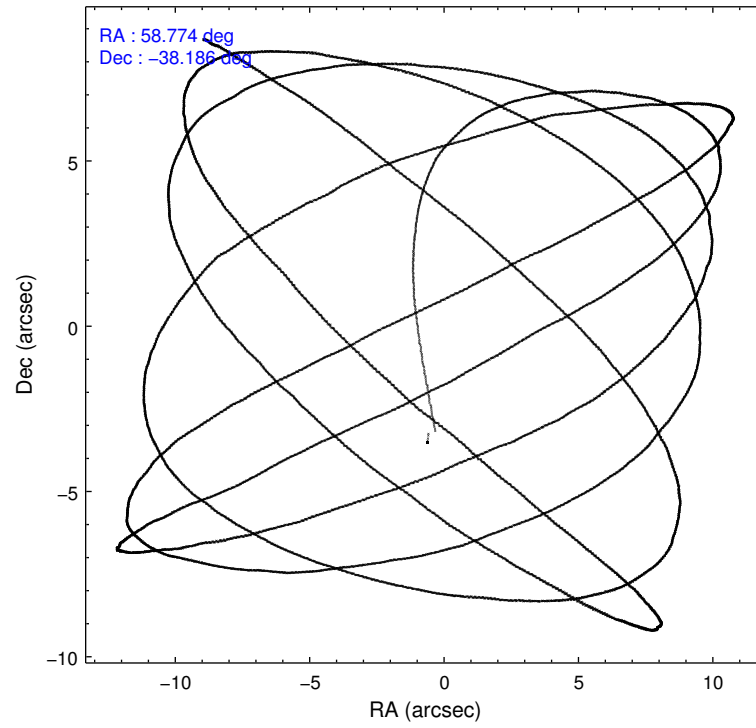


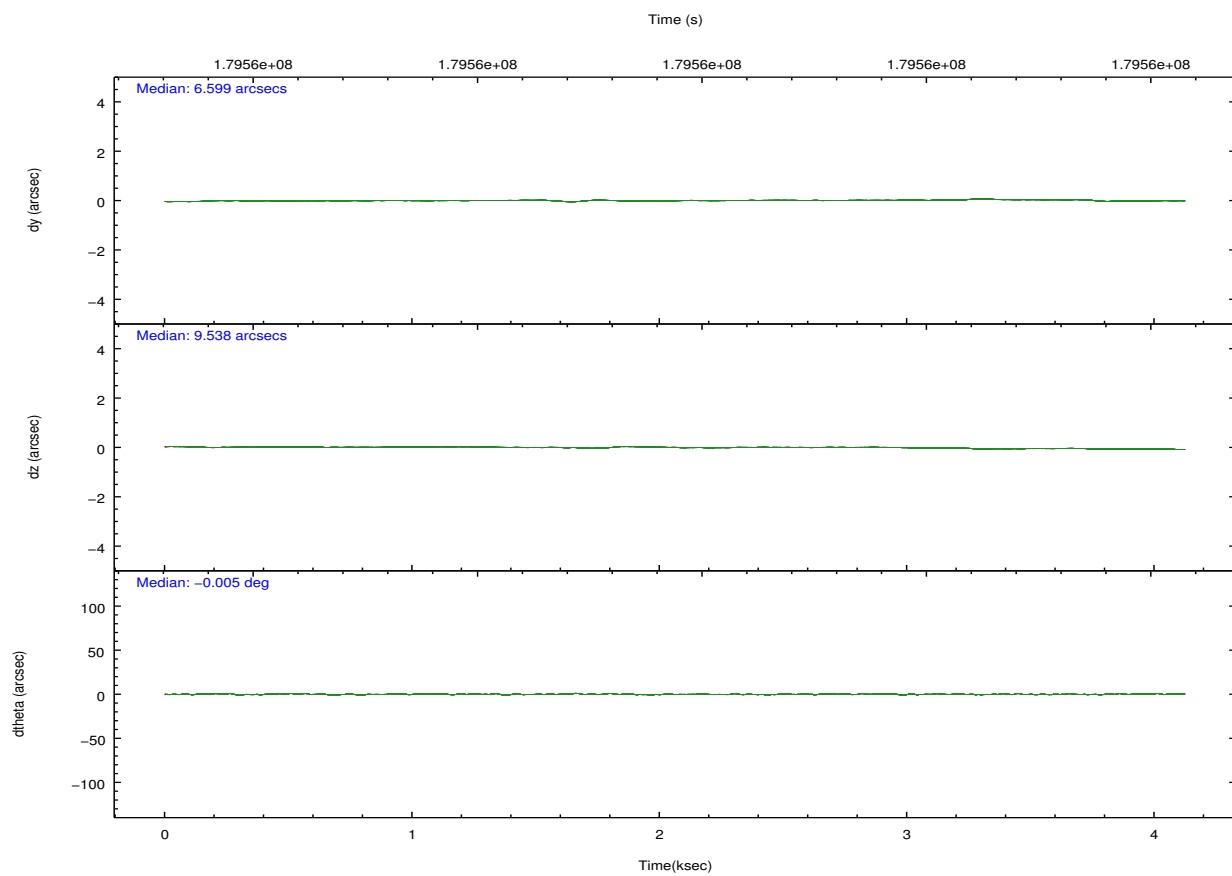
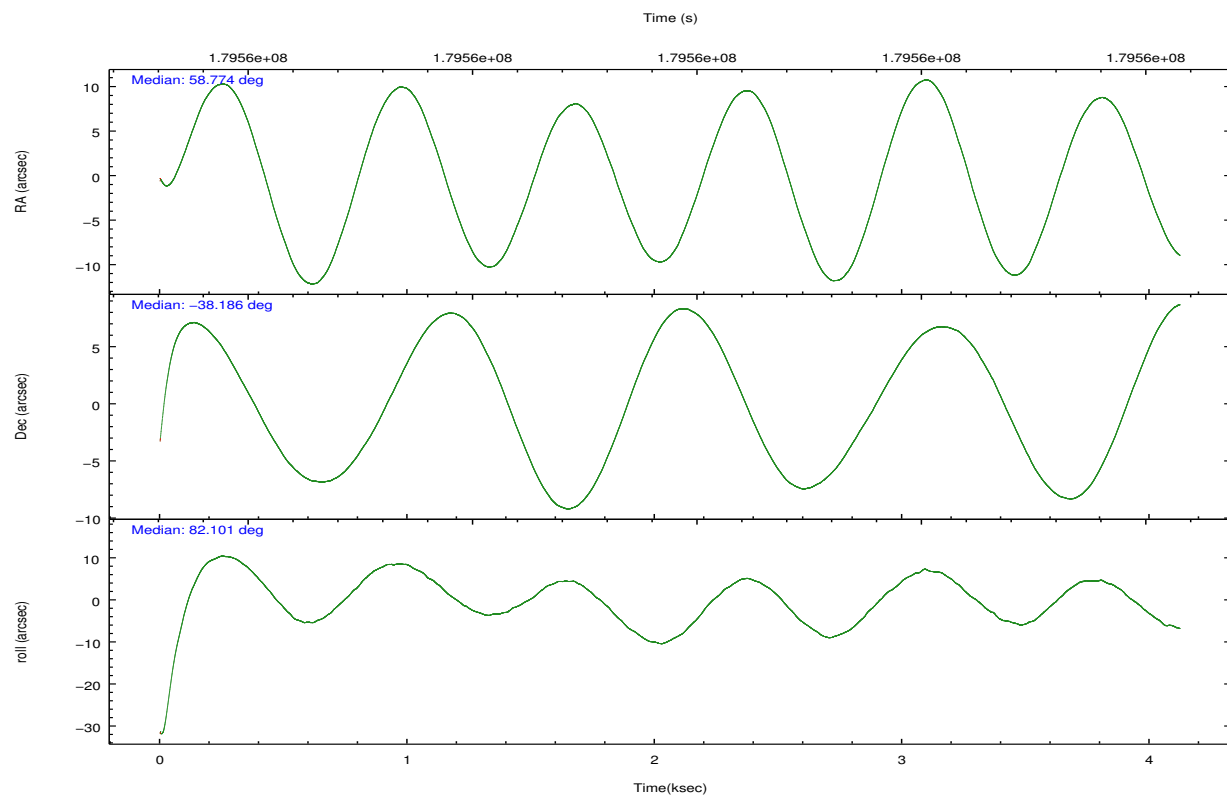
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	58.787697	58.77428285703919
[deg] Pointing Dec	-38.210978	-38.18584332879987
[deg] Pointing Roll	81.957478	82.1057231891436
[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)	179556987.184000	179555683.47701
Observation start date	2003-09-10T04:55:23	2003-09-10T04:34:43
[s] Observation end time (MET)	179560942.184000	179561640.26476
Observation end date	2003-09-10T06:01:18	2003-09-10T06:14:00
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



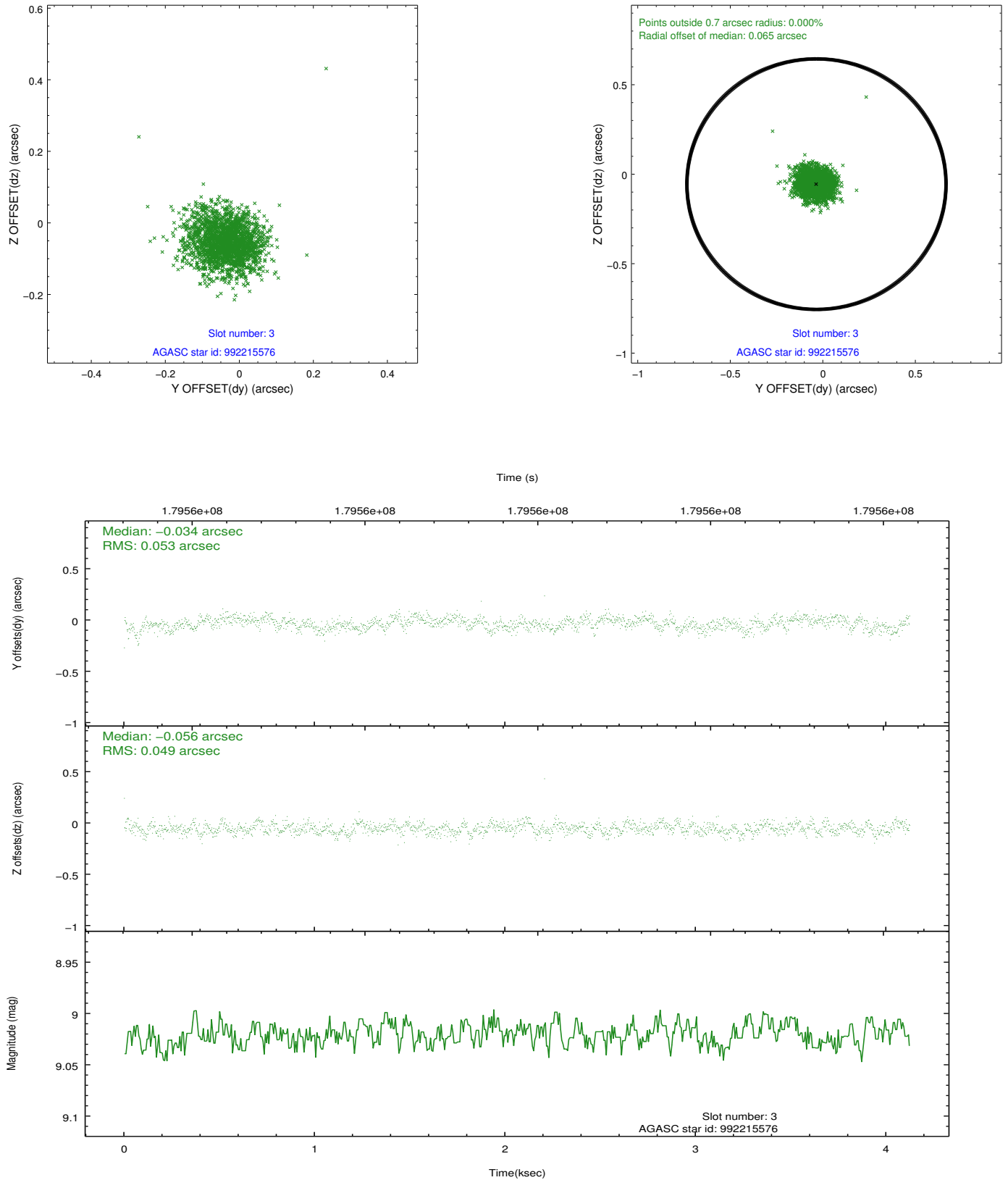


### Slot Statistics

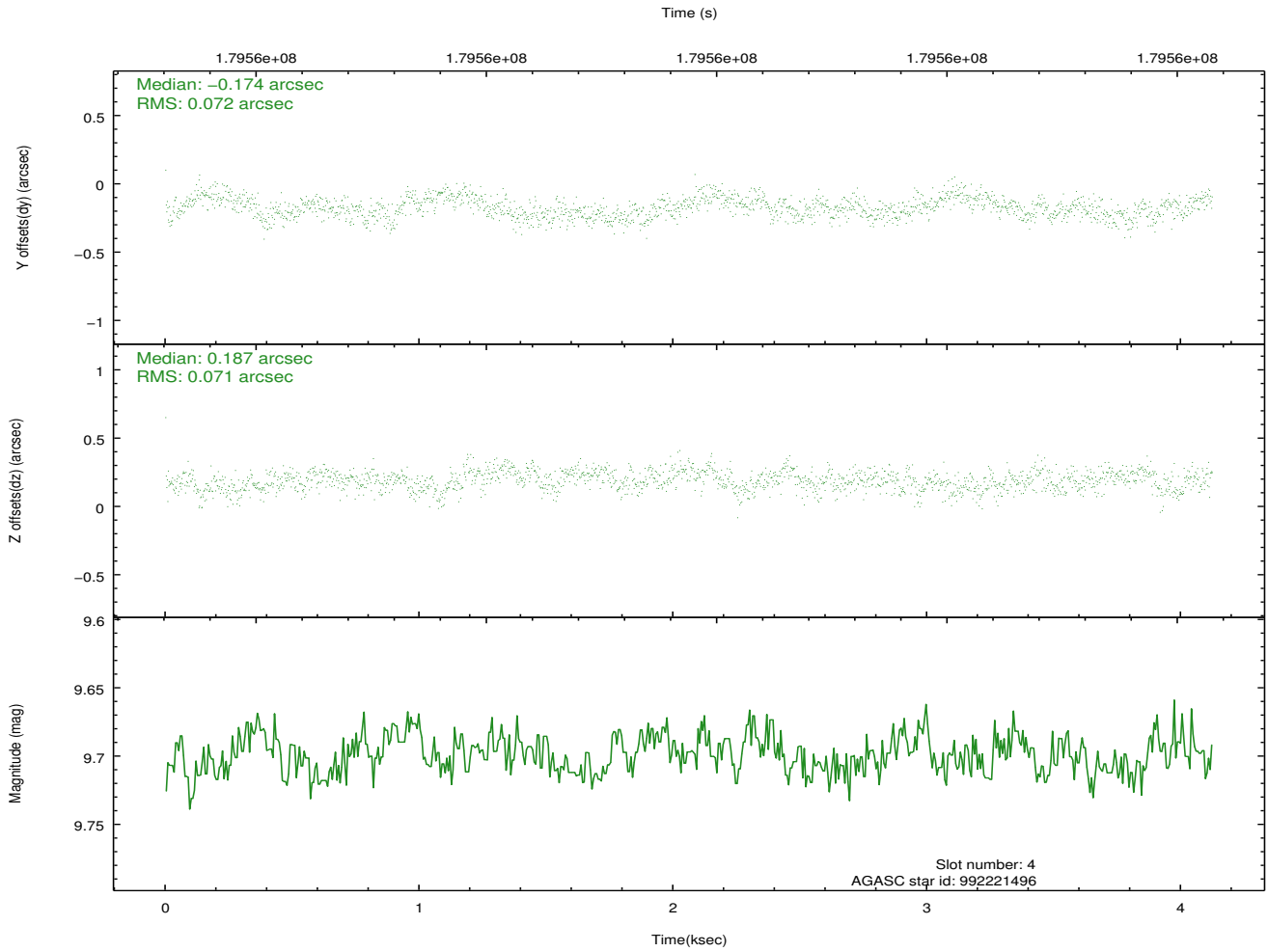
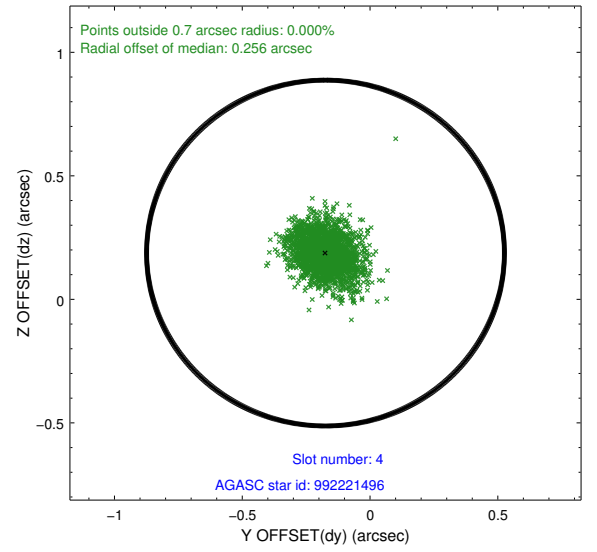
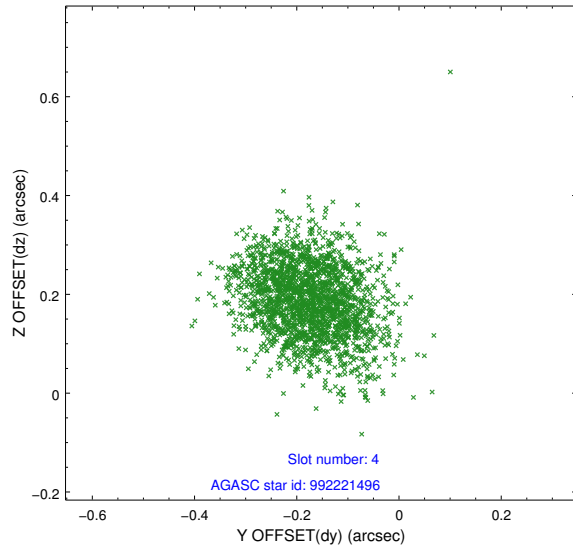
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1006	-0.050	-0.029	0.007	0.011	0.000000	0.000000	-759.37	-1730.80
1	FID	ACIS-S-4	7.20	1006	0.071	0.032	0.006	0.010	0.000000	0.000000	2153.32	176.22
2	FID	ACIS-S-5	7.23	1006	-0.052	0.006	0.006	0.010	0.000000	0.000000	-1810.30	171.53
3	GUIDE	992215576	9.02	2012	-0.034	-0.056	0.076	0.121	58.263775	-37.940399	751.59	1608.65
4	GUIDE	992221496	9.70	2010	-0.174	0.187	0.106	0.172	59.501137	-38.031739	914.69	-1912.57
5	GUIDE	992224632	8.70	2010	0.018	-0.167	0.055	0.090	58.684868	-38.039040	572.47	374.47
6	GUIDE	992224824	9.63	2009	0.112	0.110	0.106	0.172	59.364292	-38.577221	-1082.92	-1791.47
7	GUIDE	992221736	9.33	2009	0.081	-0.073	0.076	0.131	58.628845	-38.842879	-2315.50	121.81

## 2.4 Star Slots

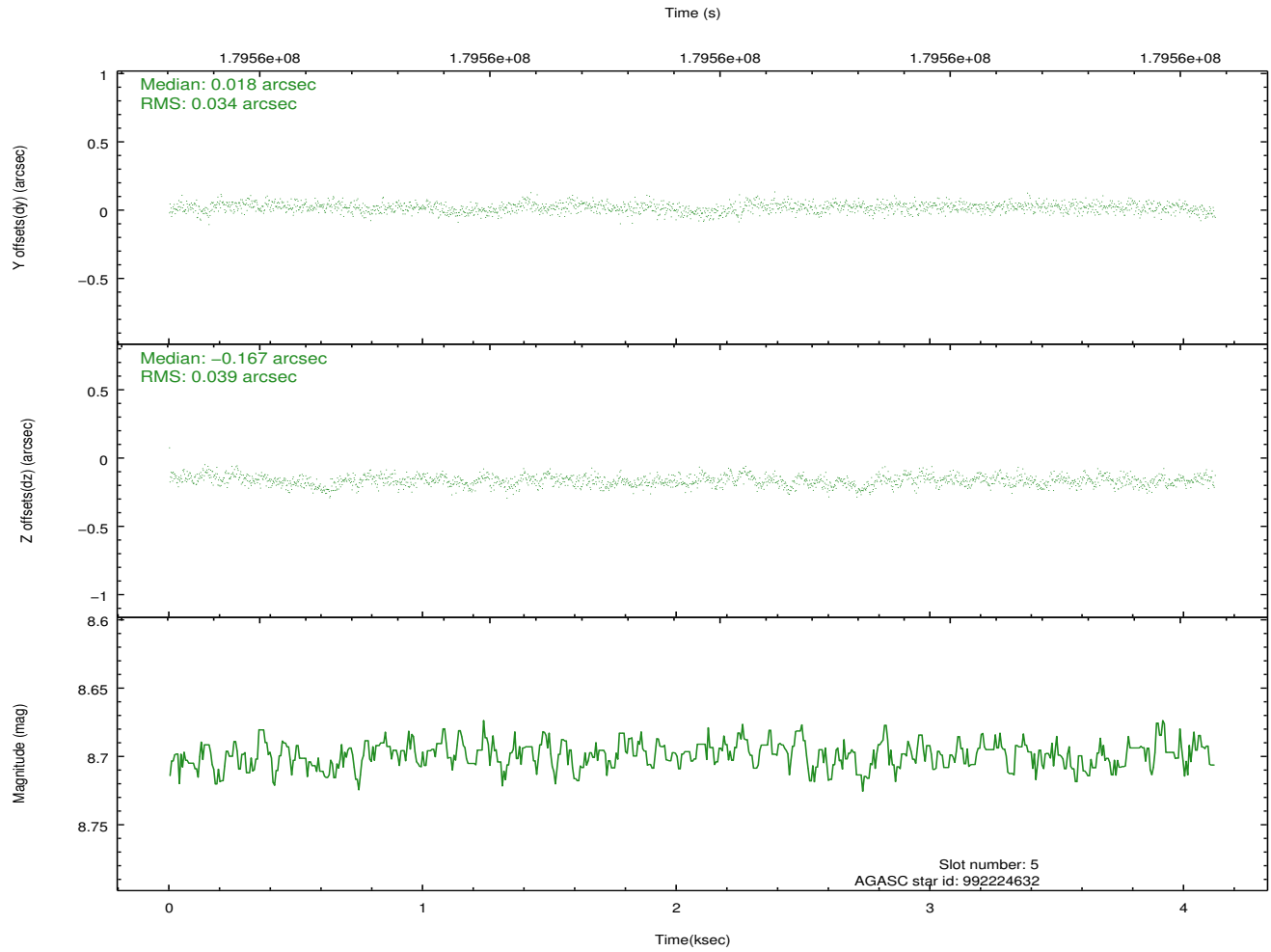
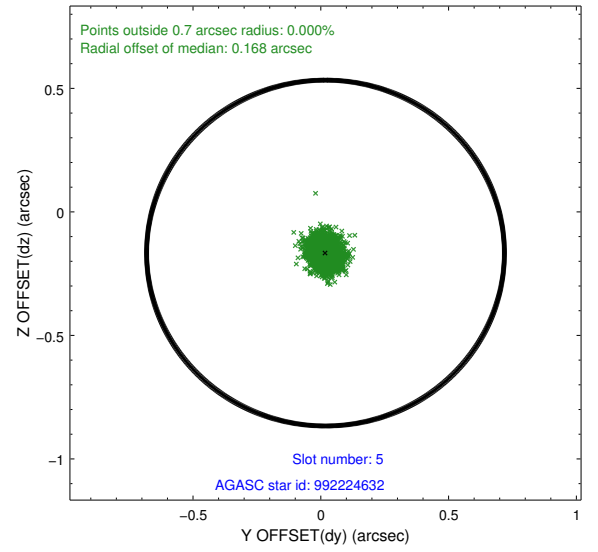
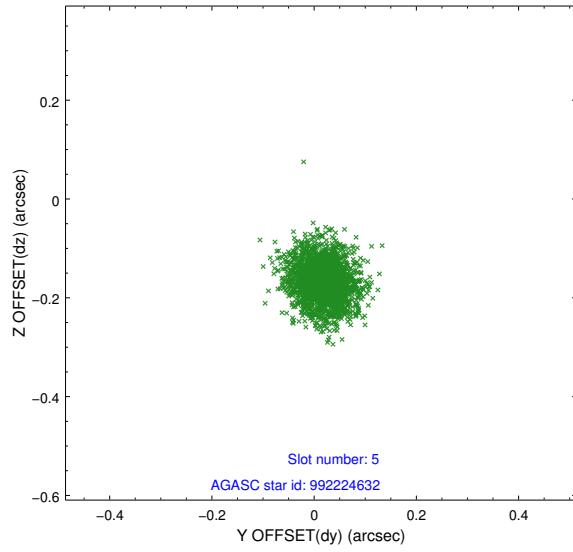
### 2.4.1 Slot 3



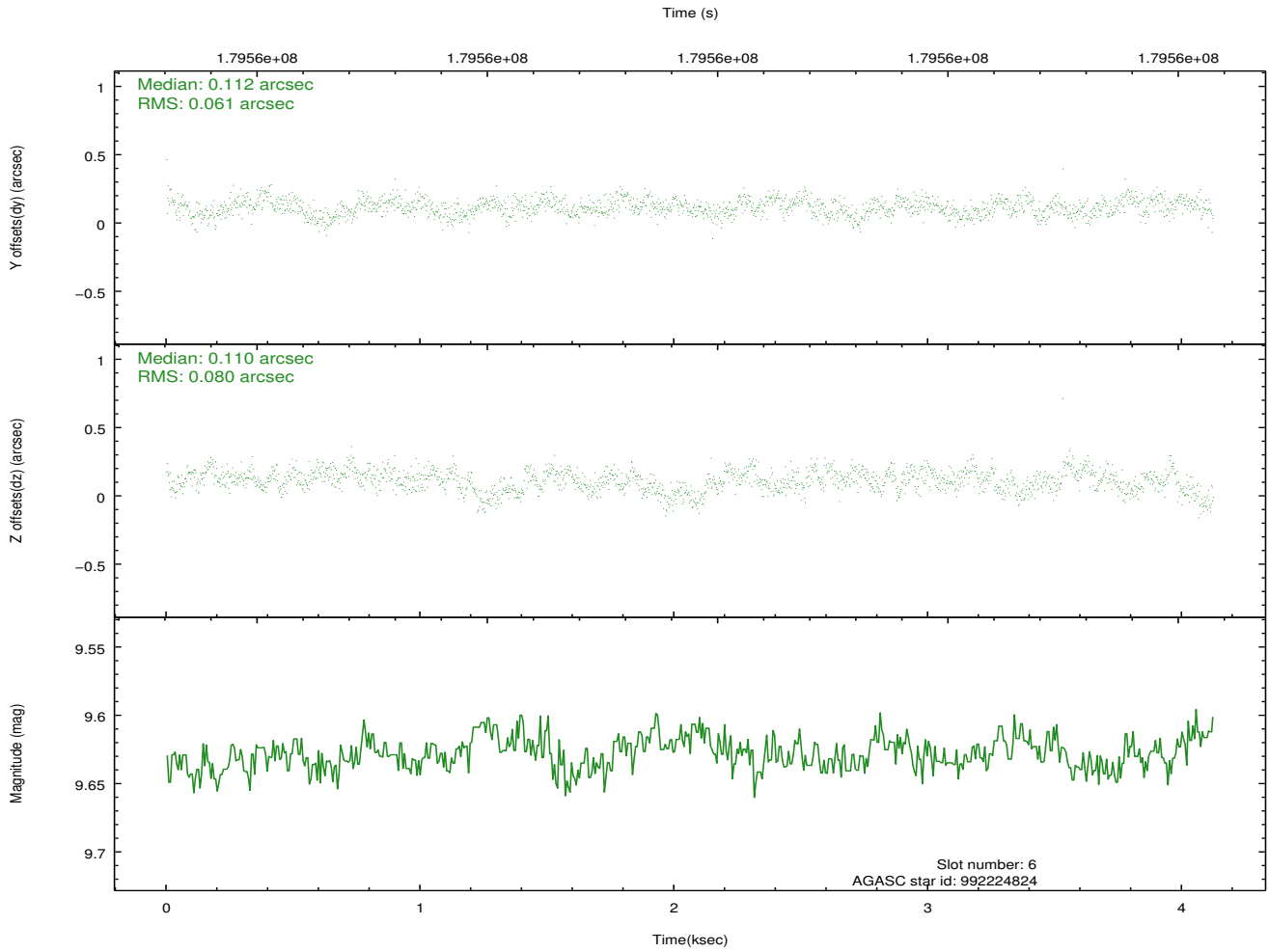
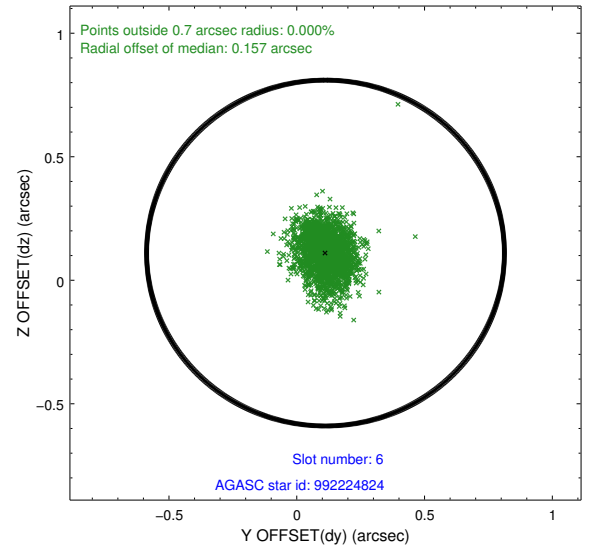
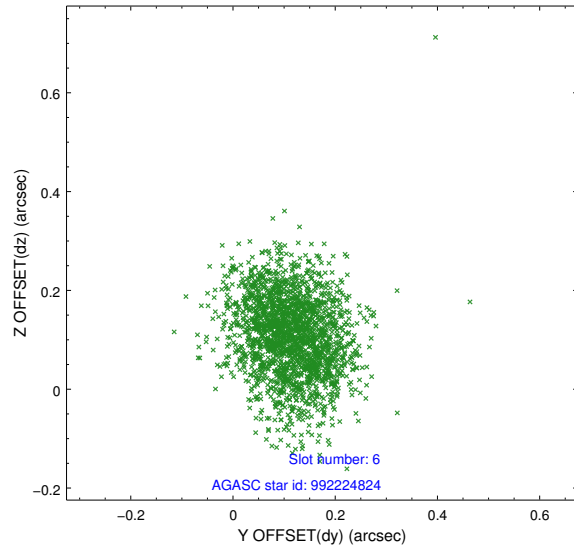
## 2.4.2 Slot 4



### 2.4.3 Slot 5

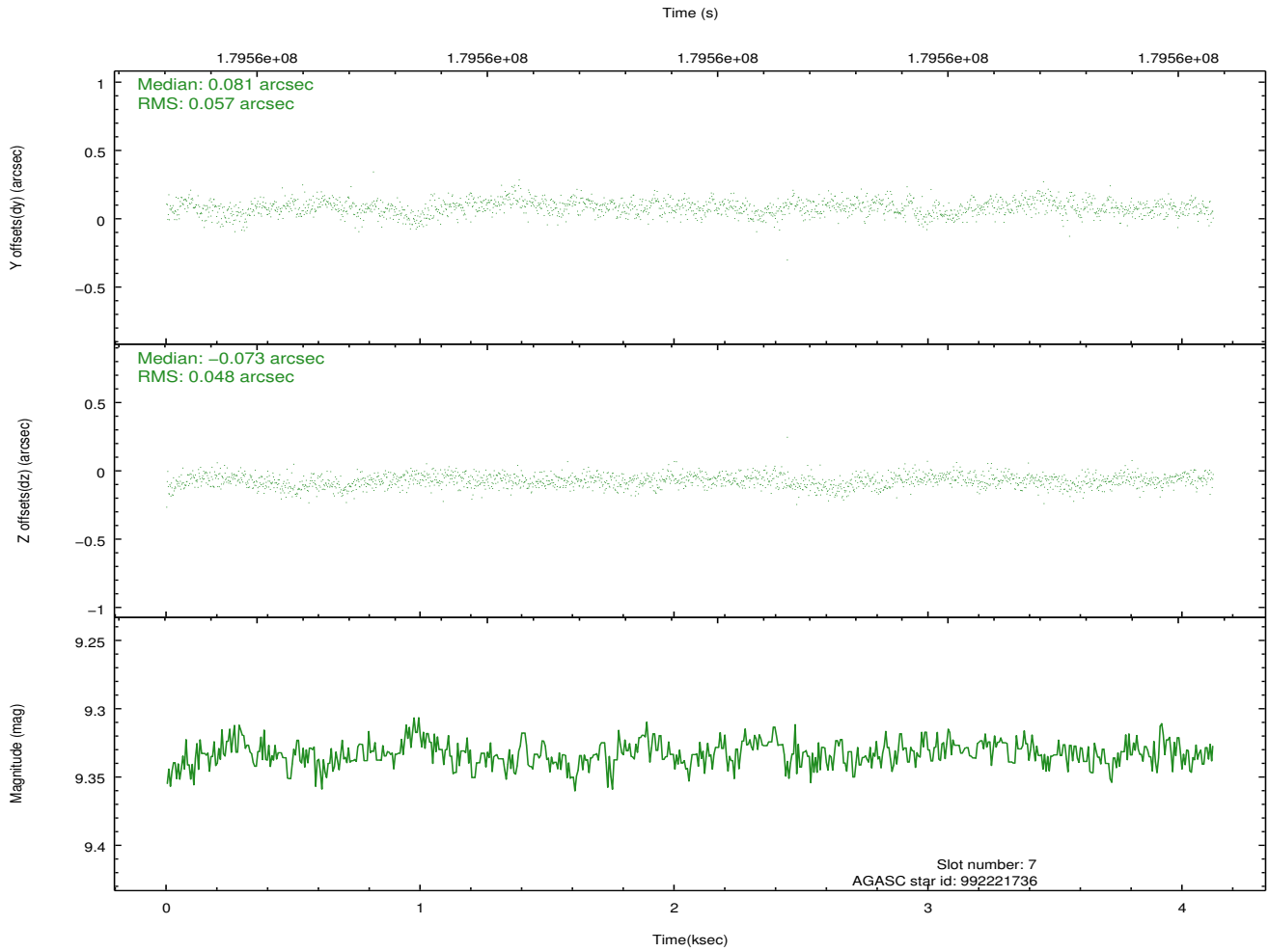
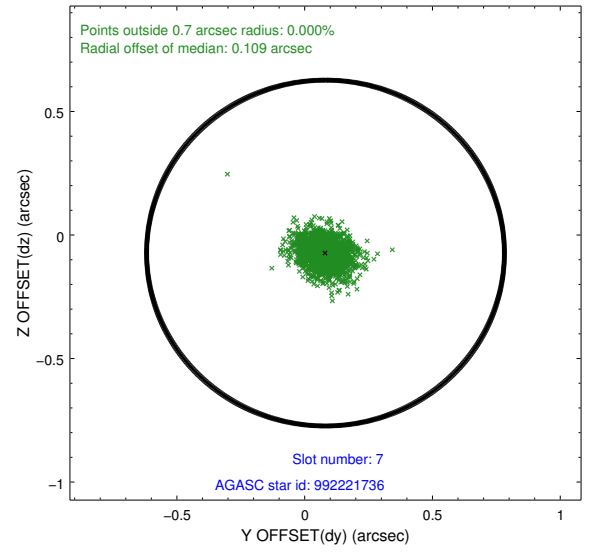
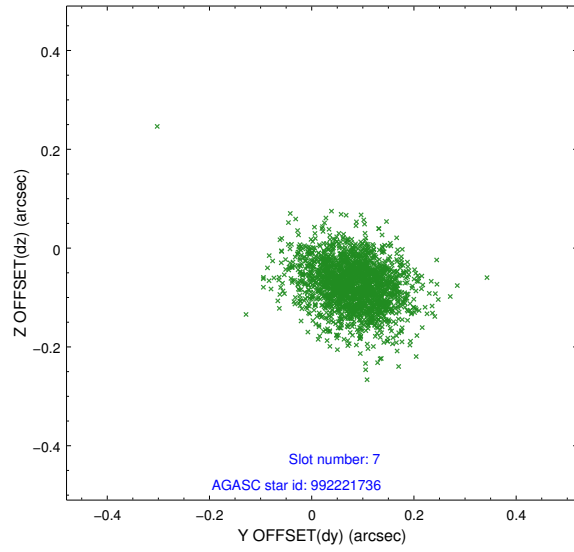


## 2.4.4 Slot 6



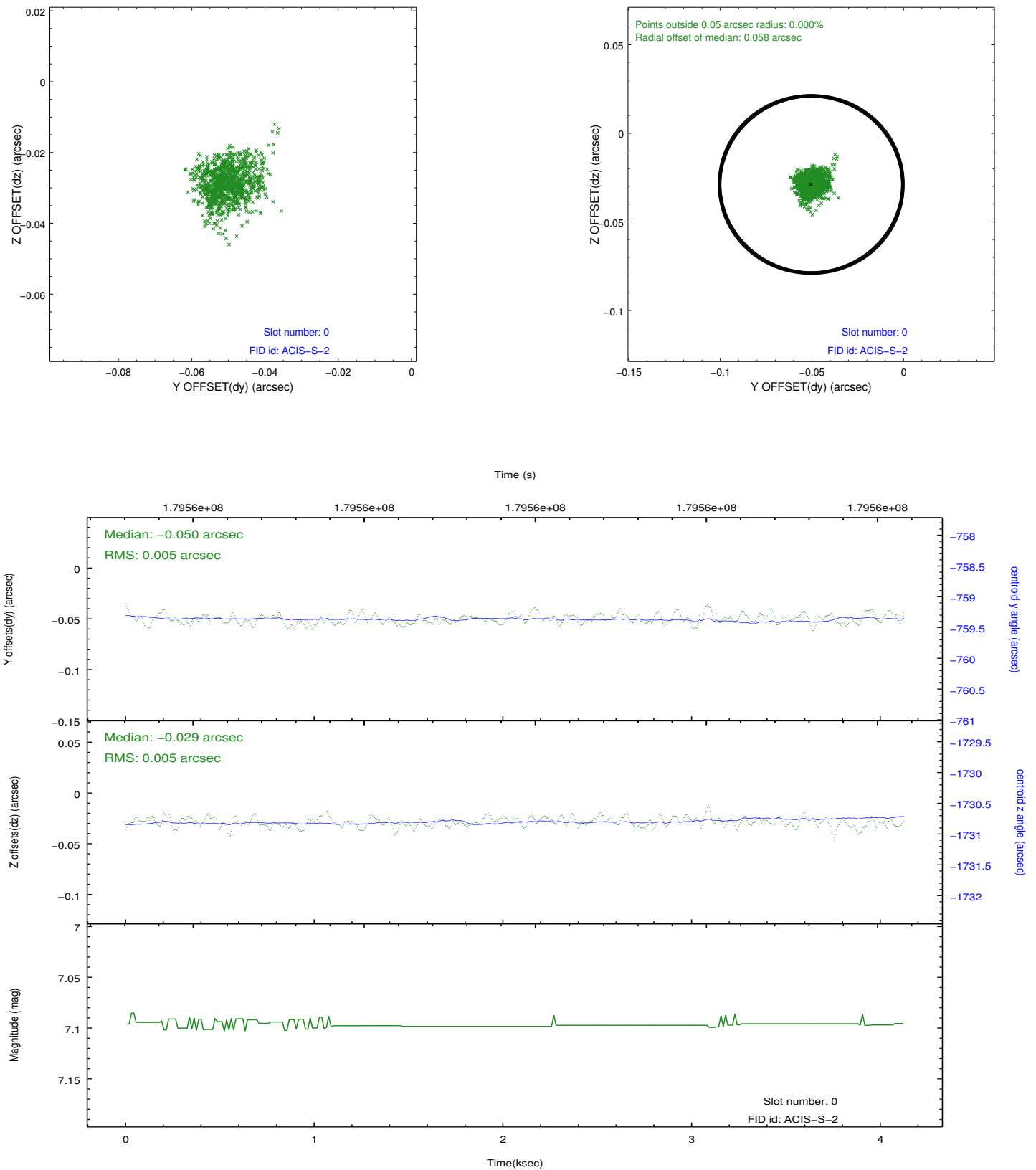


## 2.4.5 Slot 7

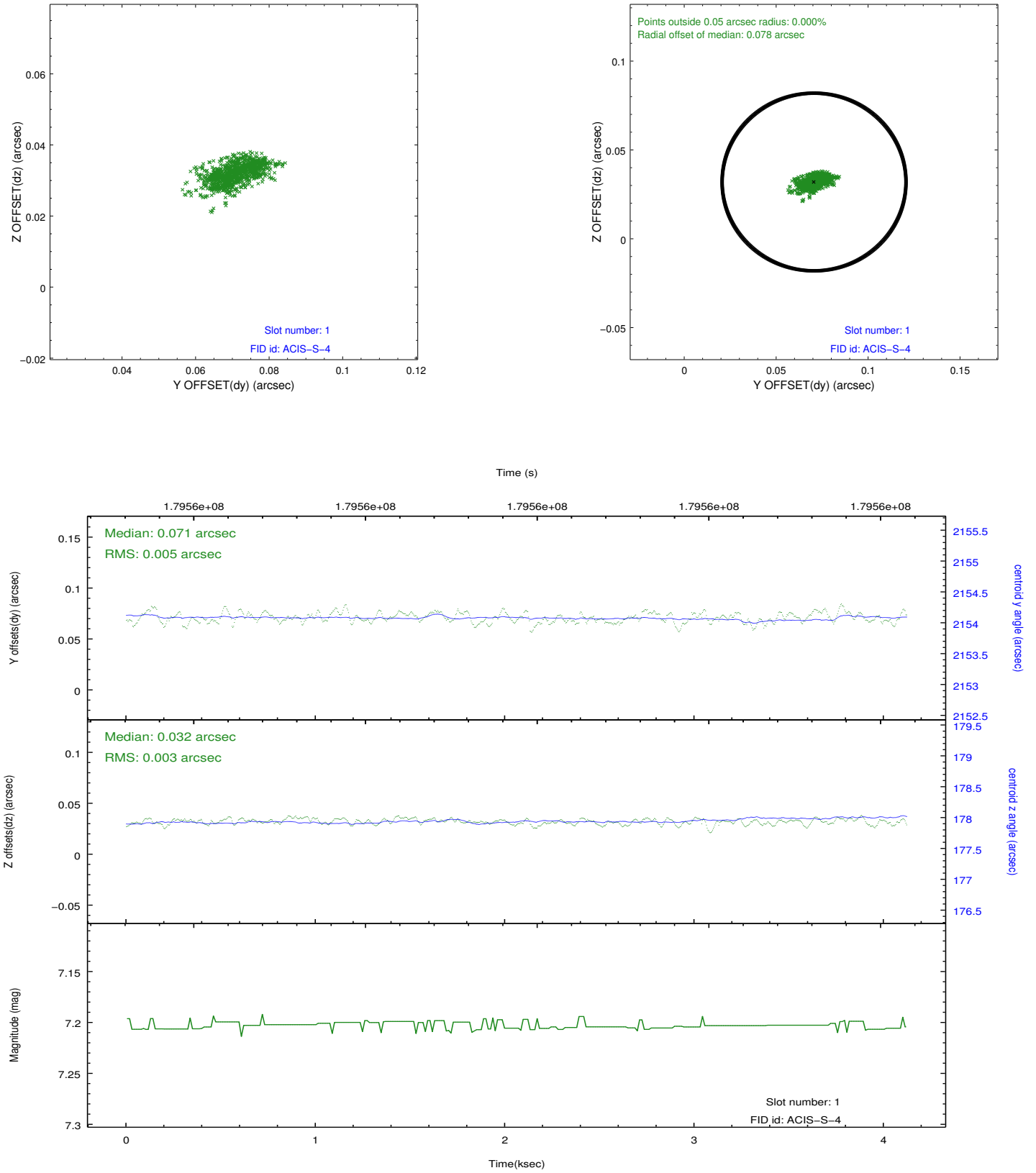


## 2.5 FID Slots

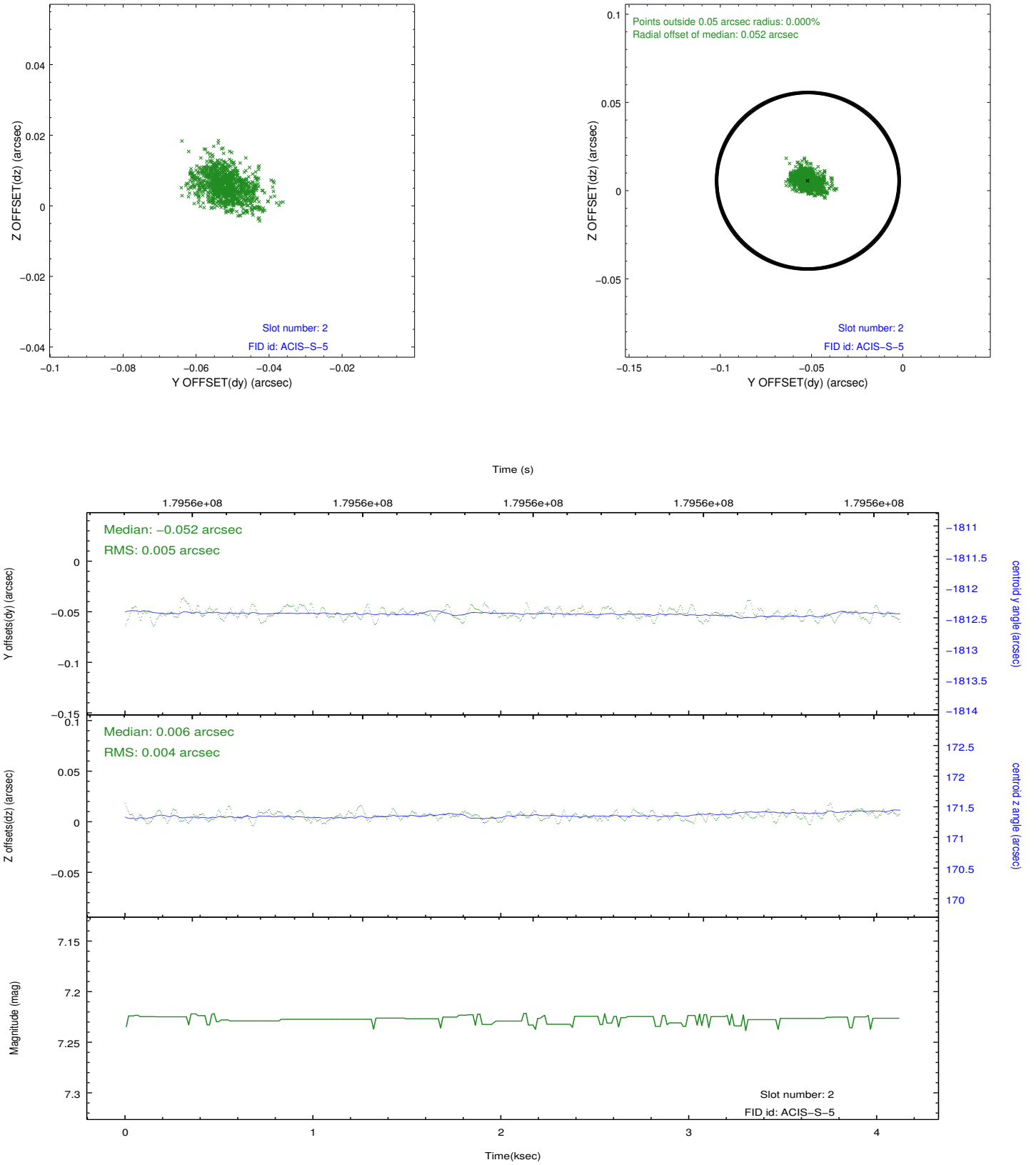
### 2.5.1 Slot 0



## 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)	2012.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.115

### A.2 Comments