

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4072 - L2 Version 3  
Chandra X-Ray Center

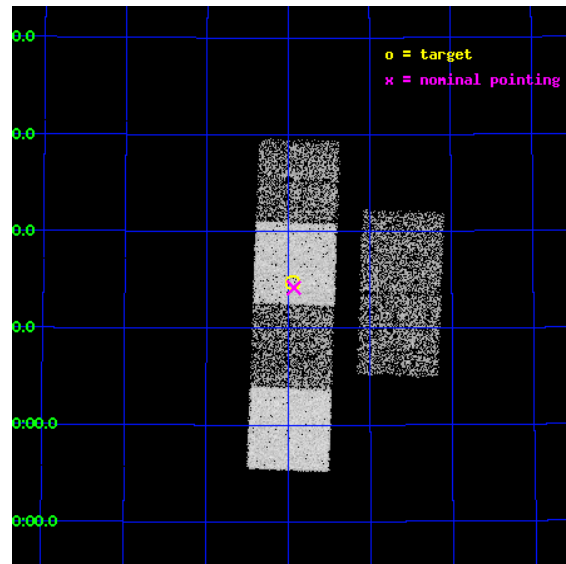
L2 Processing Date : Nov 3 2012

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# 1 Front

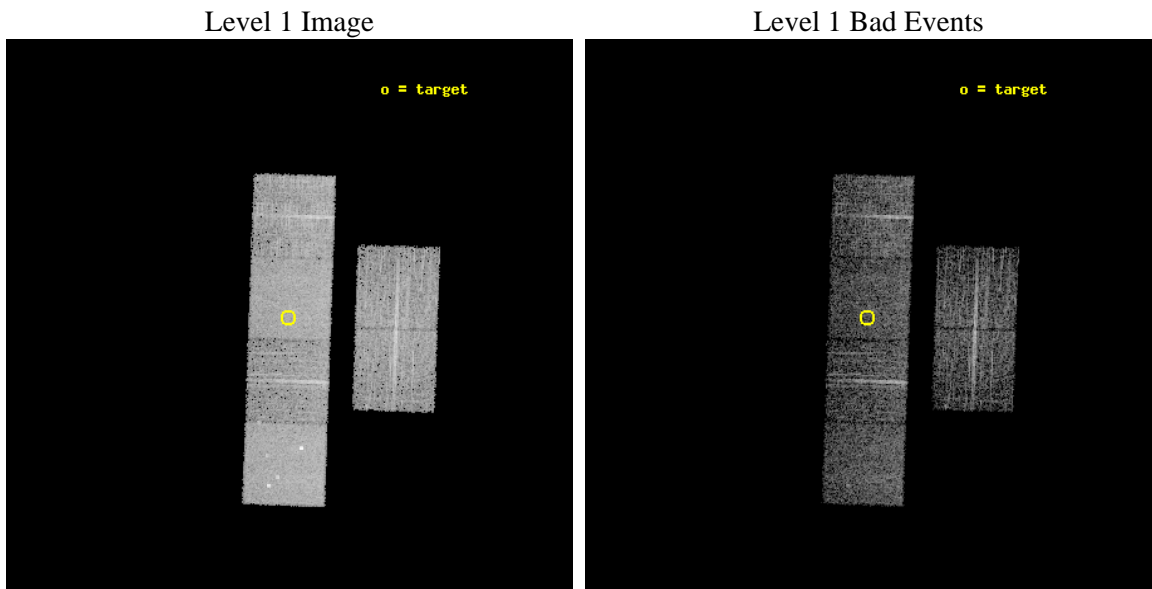
seq_num	700751	Sequence number
obs_id	4072	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z>4$	Proposal titl
observer	Dr Cristian Vignali	Principal investigator
object	PSS 1646+5514	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.735	Observer's specified target RA [deg]
dec_targ	55.246111	Observer's specified target Dec [deg]
ra_nom	251.73260479657	Nominal RA [deg]
dec_nom	55.236401419366	Nominal Dec [deg]
roll_nom	271.97708374773	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4905.5999817252	Sum of GTIs [s]
livetime	4843.4823209589	Livetime [s]
ontime2	4905.5999817252	Sum of GTIs [s]
ontime3	4905.5999817252	Sum of GTIs [s]
ontime5	4905.5999817252	Sum of GTIs [s]
ontime6	4905.5999817252	Sum of GTIs [s]
ontime7	4905.5999817252	Sum of GTIs [s]
ontime8	4905.5999817252	Sum of GTIs [s]
l2events	48492	Number of level 2 events



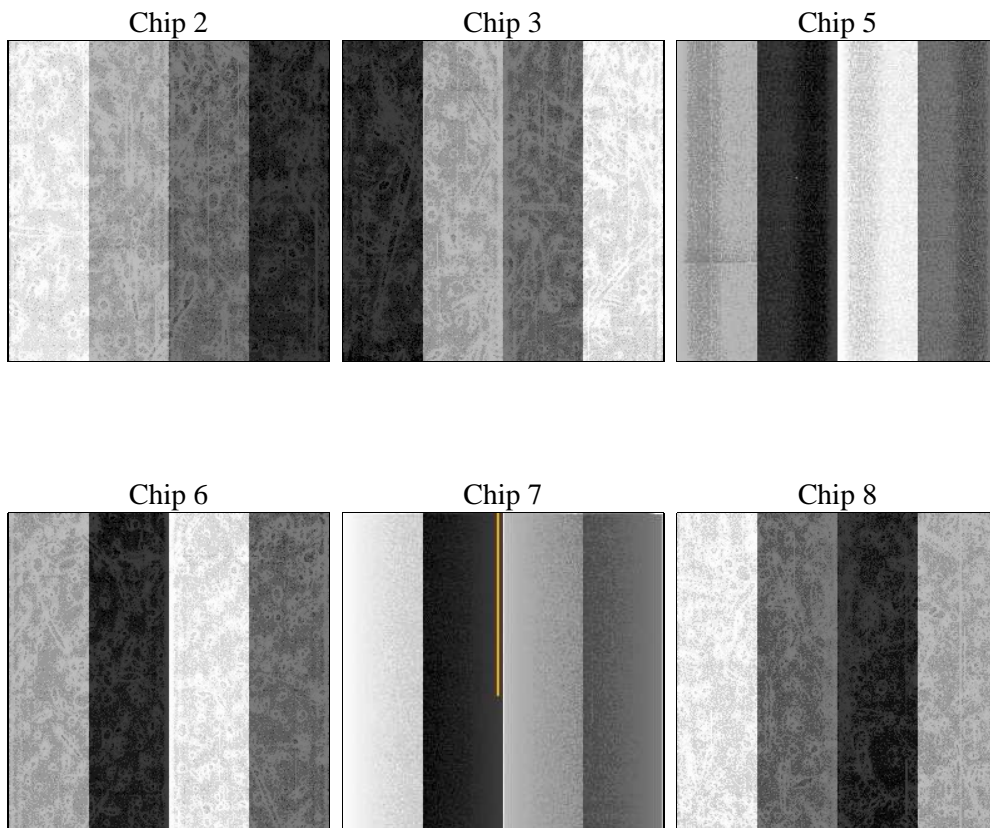
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4944.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4905.5999817252	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4905.5999817252	Sum of GTIs [s]
date	2012-11-03T19:14:41	Date and time of file creation	ontime3	4905.5999817252	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4905.5999817252	Sum of GTIs [s]
			ontime6	4905.5999817252	Sum of GTIs [s]
			ontime7	4905.5999817252	Sum of GTIs [s]
			ontime8	4905.5999817252	Sum of GTIs [s]
			l1events	215124	Number of level 1 events

### 2.1.4 Events

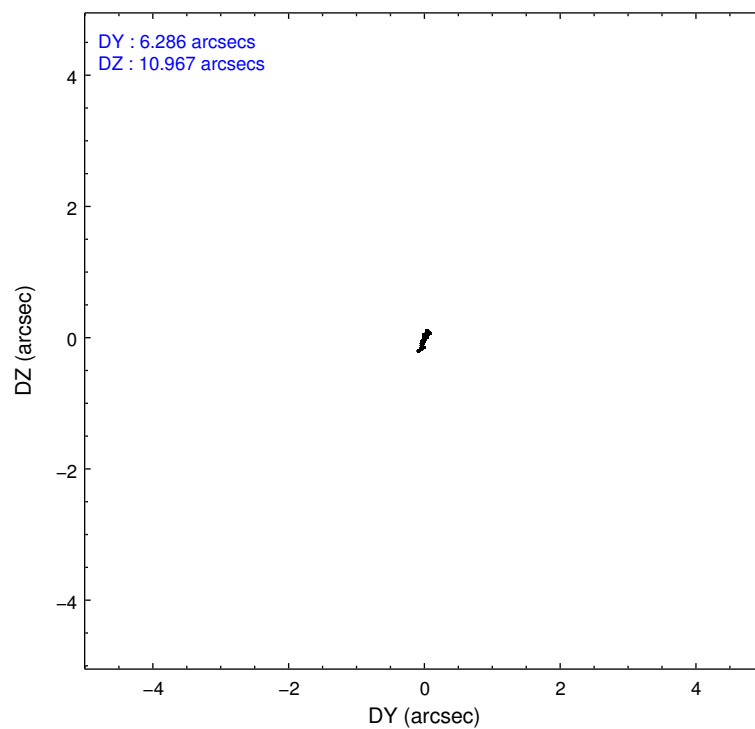
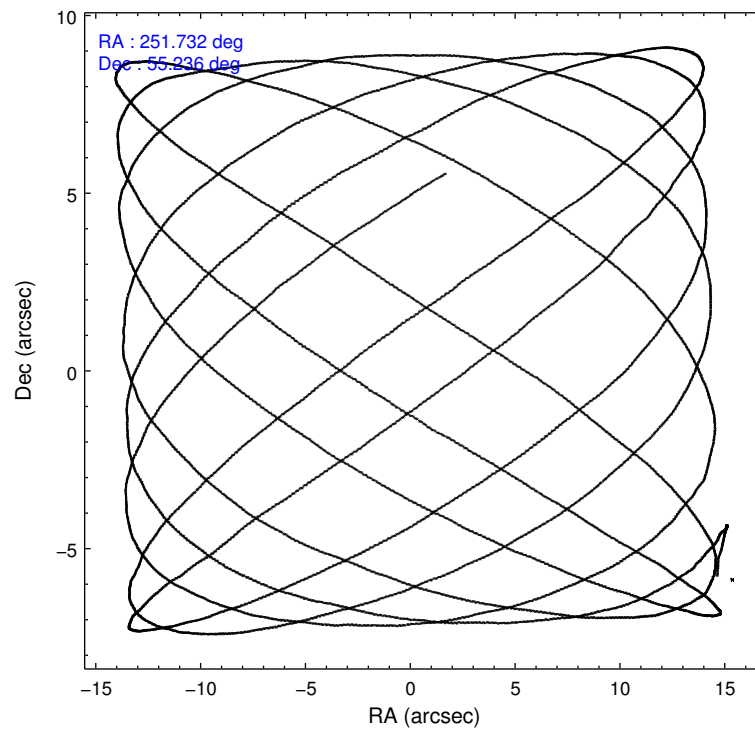
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29774	30408	46903	29677	40455	37907	grade 0 events	1630	1469	3308	1376	1560	2401
rejected events	26161	26971	25018	26129	23649	30176		5%	4%	7%	4%	3%	6%
rejected %	87%	88%	53%	88%	58%	79%	grade 1 events	19	19	123	19	27	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	682	671	6207	694	3279	1655
								2%	2%	13%	2%	8%	4%
							grade 3 events	357	333	867	373	1461	830
								1%	1%	1%	1%	3%	2%
							grade 4 events	328	337	837	351	1542	784
								1%	1%	1%	1%	3%	2%
							grade 5 events	1184	1291	3407	1361	3924	1839
								3%	4%	7%	4%	9%	4%
							grade 6 events	617	629	10683	757	8970	2062
								2%	2%	22%	2%	22%	5%
							grade 7 events	24957	25659	21471	24746	19692	28306
								83%	84%	45%	83%	48%	74%

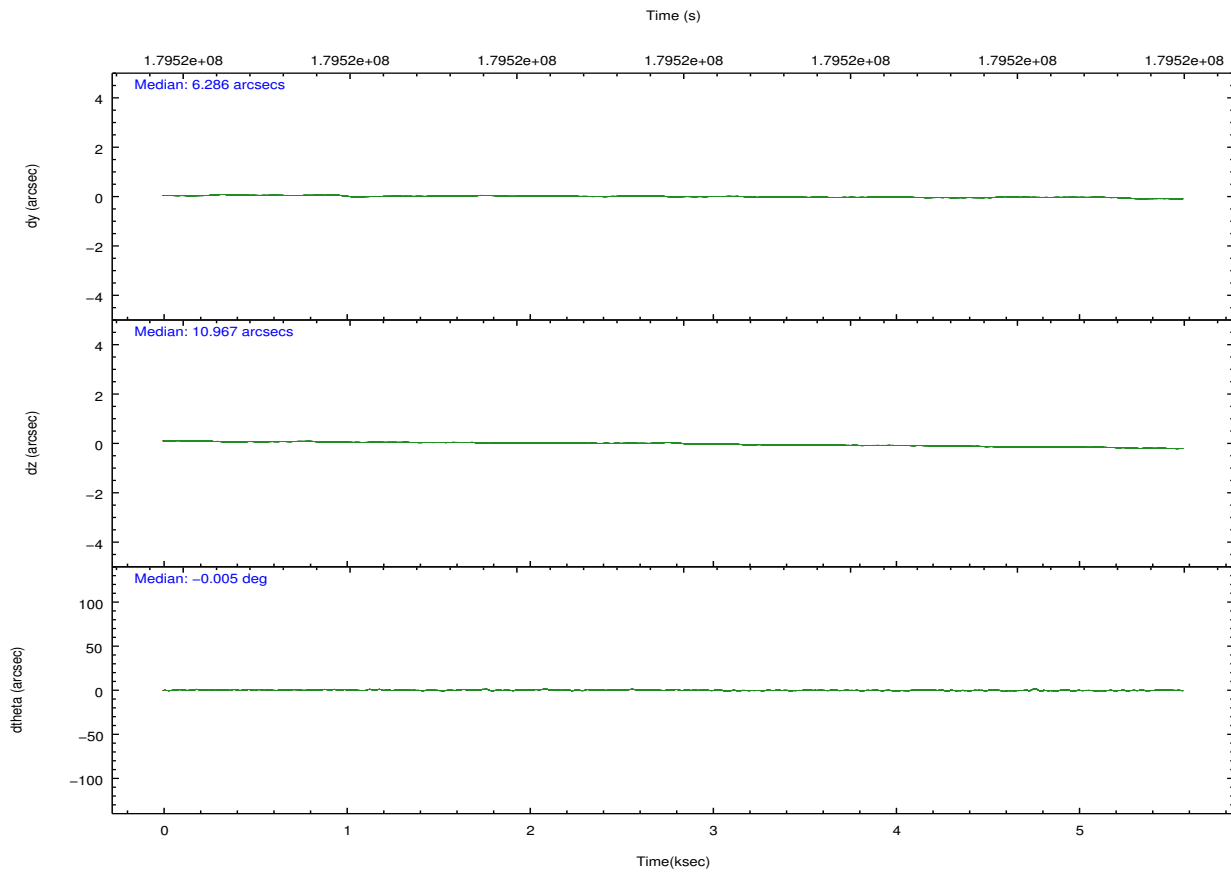
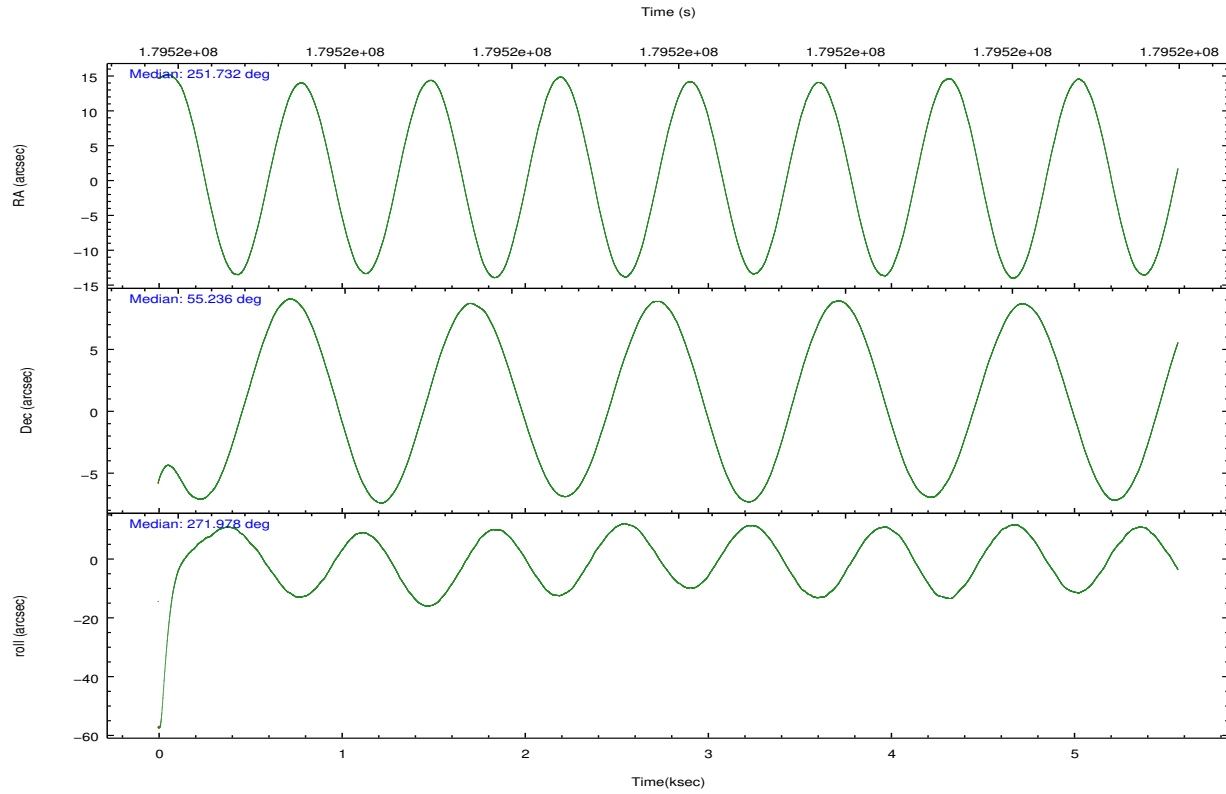


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	251.706747	251.7326047965713	Subarray requested	NONE	NONE
[deg] Pointing Dec	55.259442	55.23640141936584	Alternating exposures requested	N	N
[deg] Pointing Roll	271.841841	271.9770837477303	[s] Primary exposure time	0.000000	3.2
[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)	179517773.184000	179516592.53783			
Observation start date	2003-09-09T18:01:49	2003-09-09T17:43:12			
[s] Observation end time (MET)	179522717.184000	179523064.38811			
Observation end date	2003-09-09T19:24:13	2003-09-09T19:31:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect



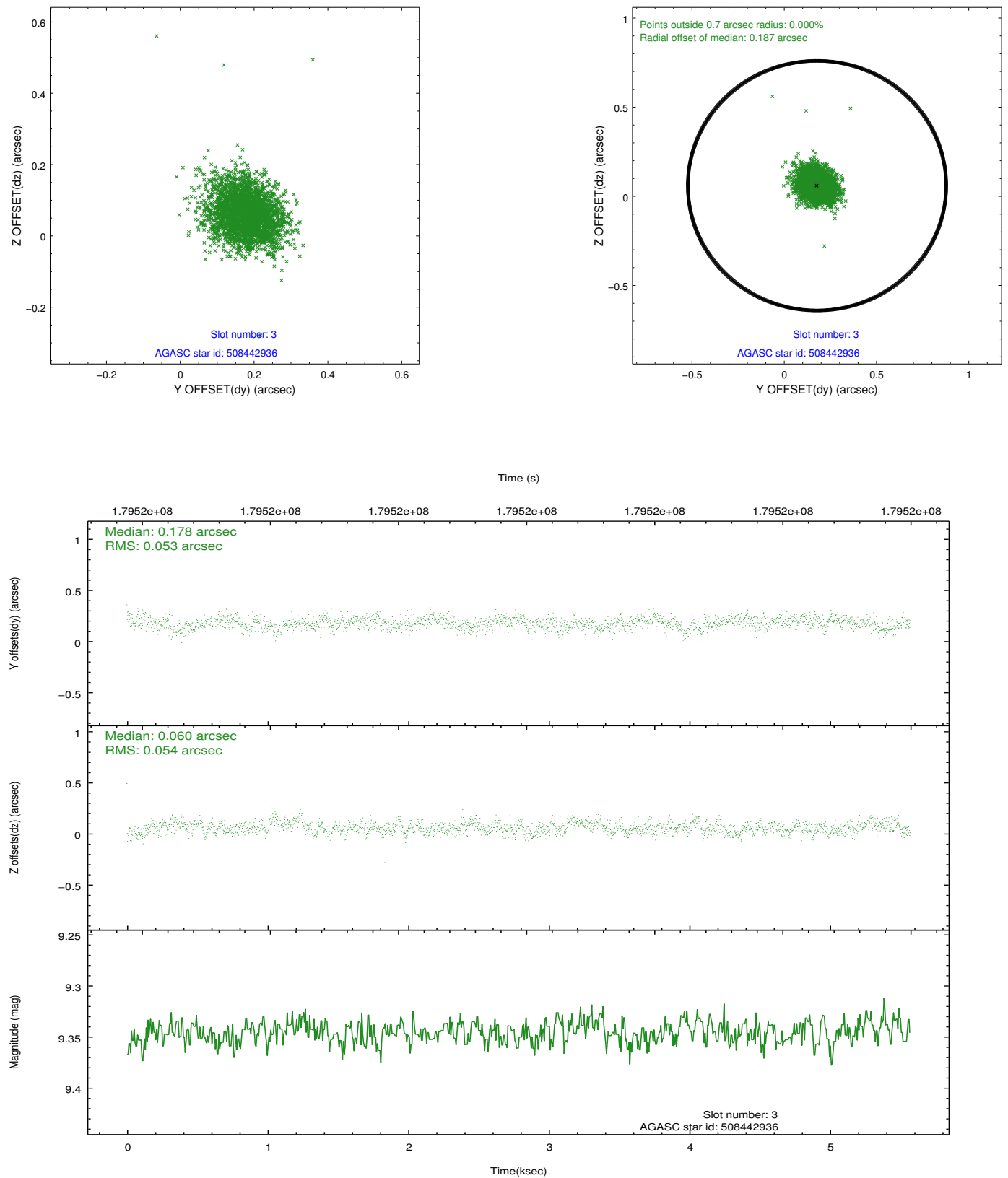


### Slot Statistics

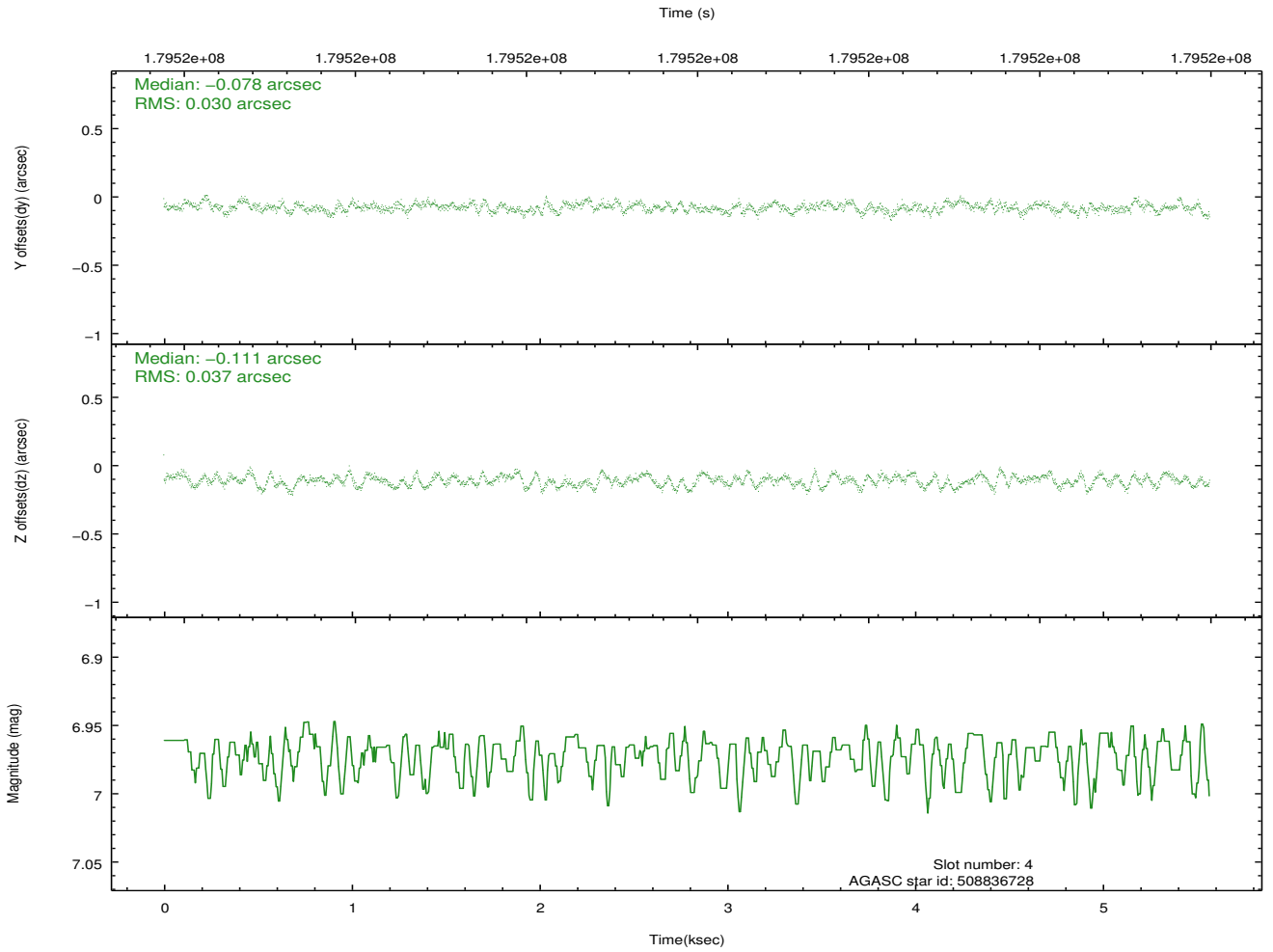
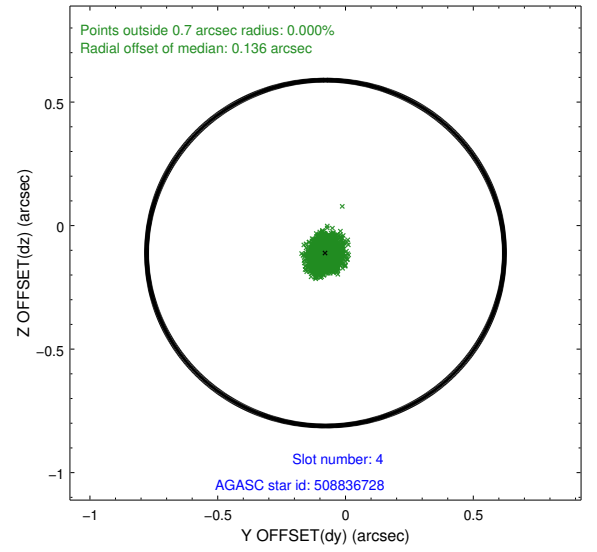
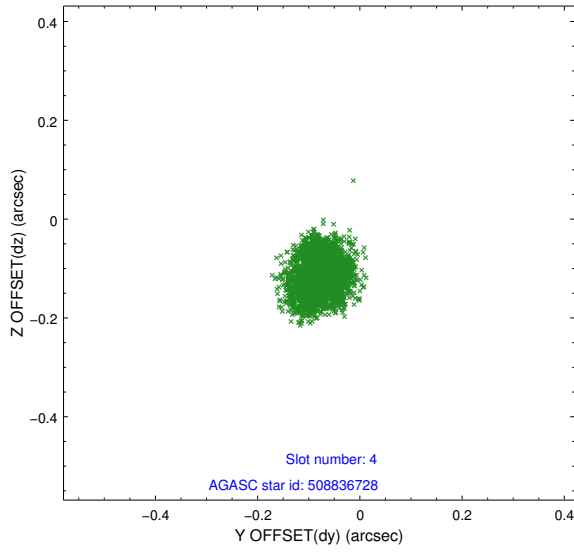
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1359	-0.052	-0.007	0.007	0.011	0.000000	0.000000	-759.05	-1732.22
1	FID	ACIS-S-4	7.20	1359	0.054	0.027	0.006	0.012	0.000000	0.000000	2153.83	175.21
2	FID	ACIS-S-5	7.23	1359	-0.034	-0.011	0.007	0.012	0.000000	0.000000	-1810.51	170.03
3	GUIDE	508442936	9.35	2717	0.178	0.060	0.079	0.127	251.652449	54.686627	2057.56	-178.90
4	GUIDE	508836728	6.97	2717	-0.078	-0.111	0.051	0.079	251.715220	55.409983	-540.45	34.82
5	GUIDE	508838472	7.22	2718	0.004	-0.034	0.055	0.088	251.408850	55.313946	-217.10	-603.43
6	GUIDE	508840536	9.35	2718	-0.033	0.007	0.075	0.124	251.197263	55.885789	-2290.66	-955.54
7	GUIDE	508841552	8.20	2711	-0.072	0.078	0.065	0.100	251.402020	55.773623	-1872.18	-557.18

## 2.4 Star Slots

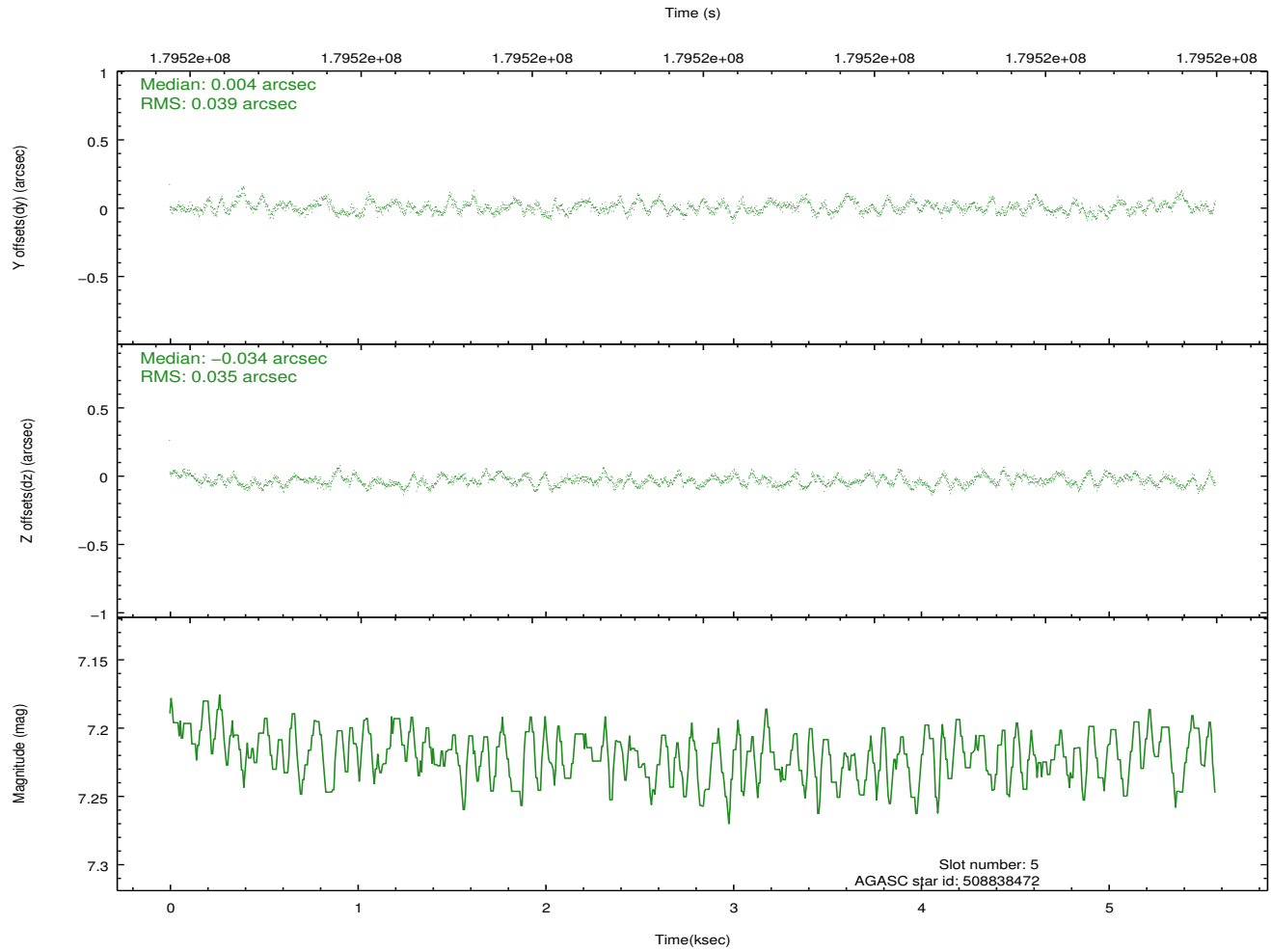
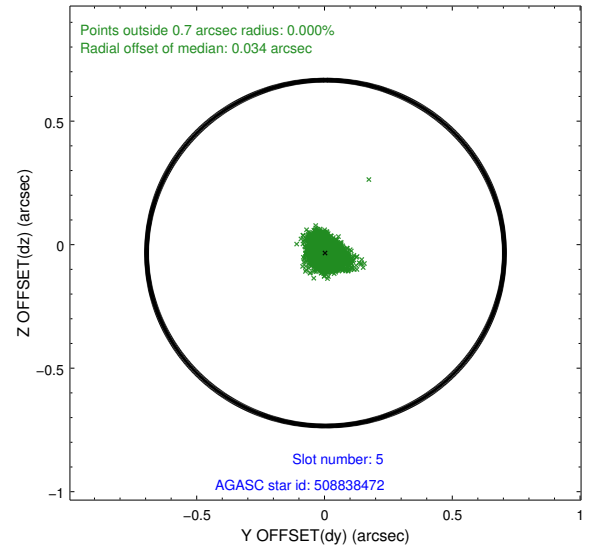
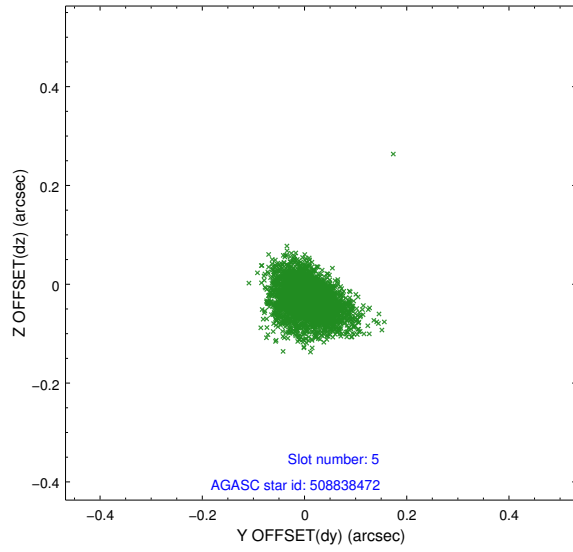
### 2.4.1 Slot 3



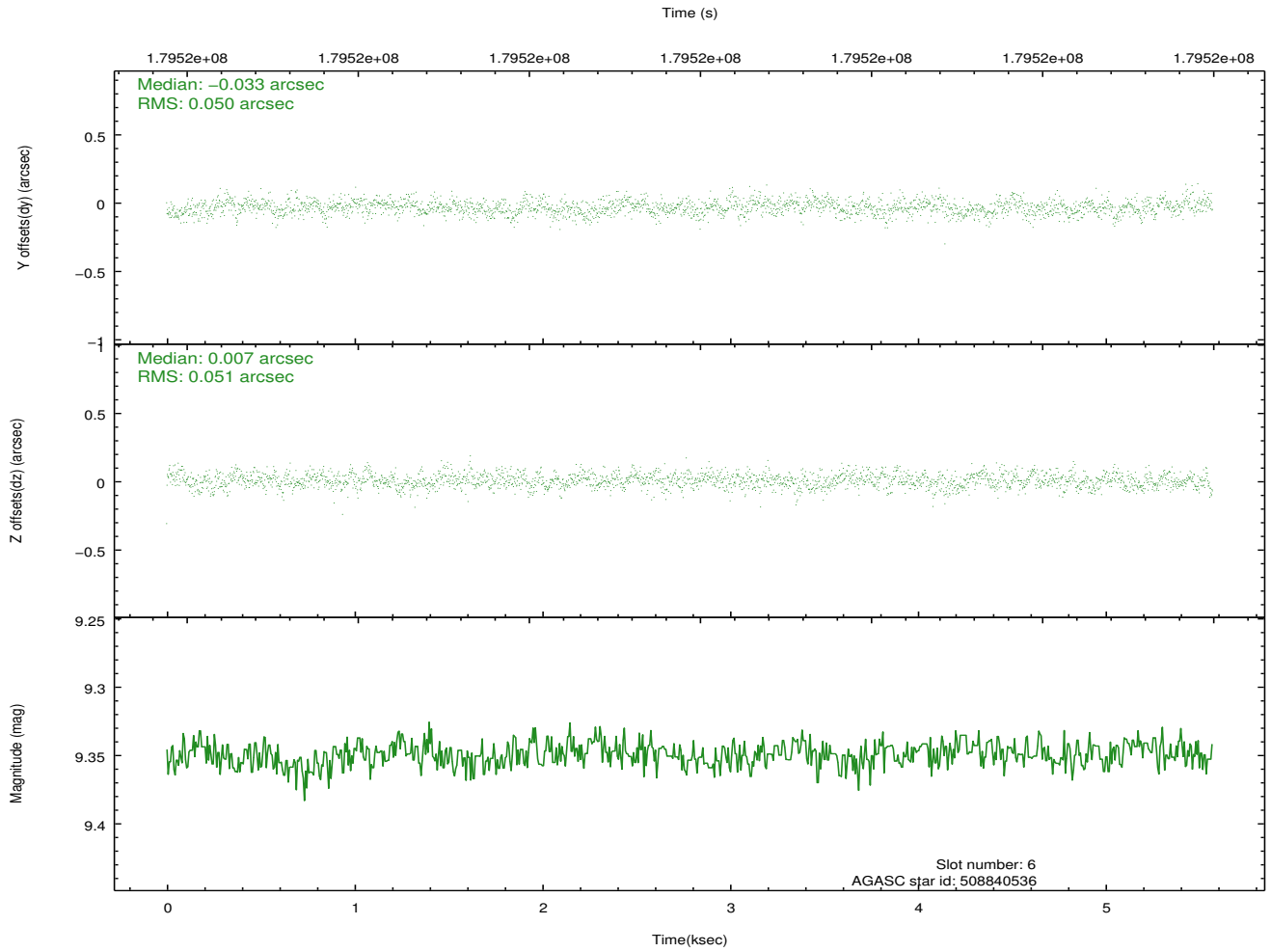
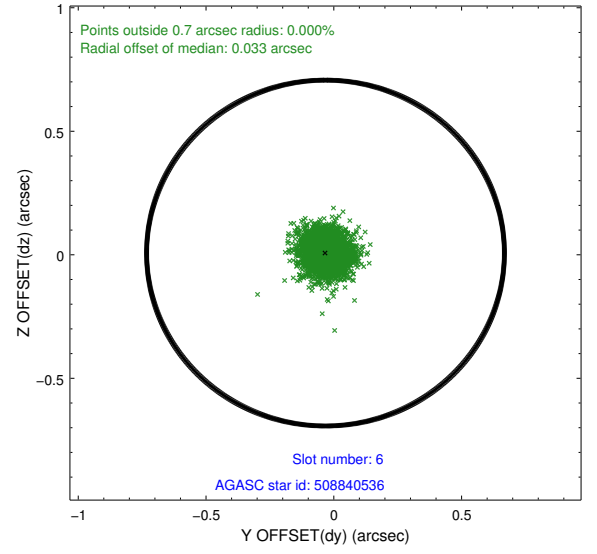
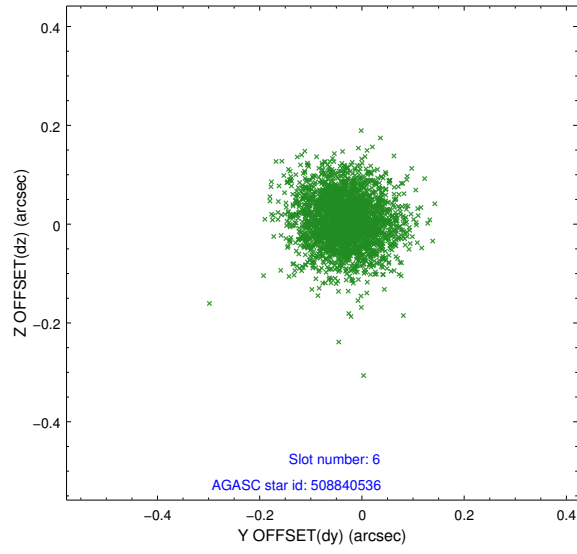
## 2.4.2 Slot 4



### 2.4.3 Slot 5

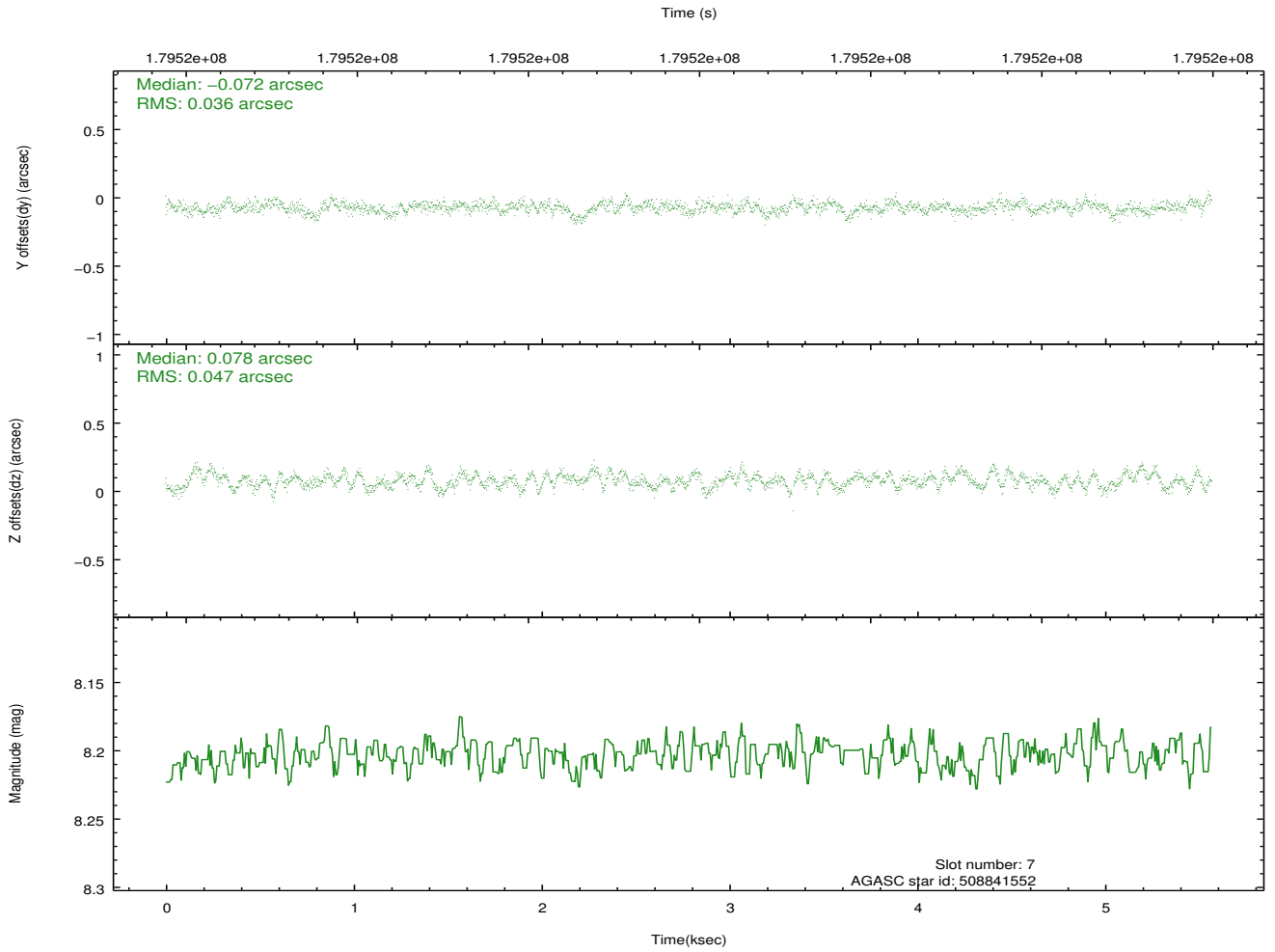
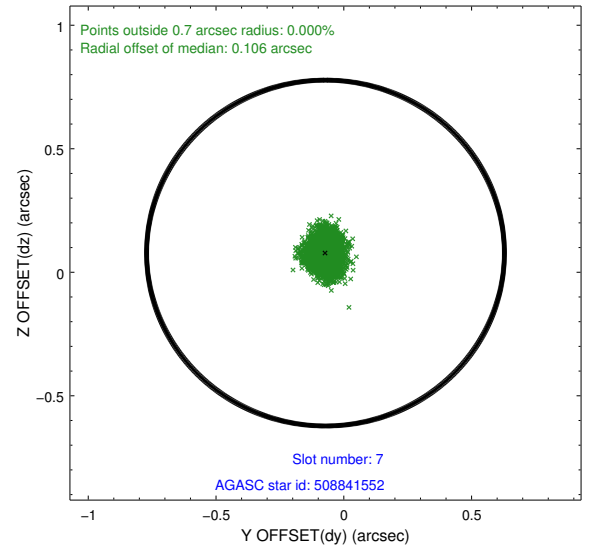
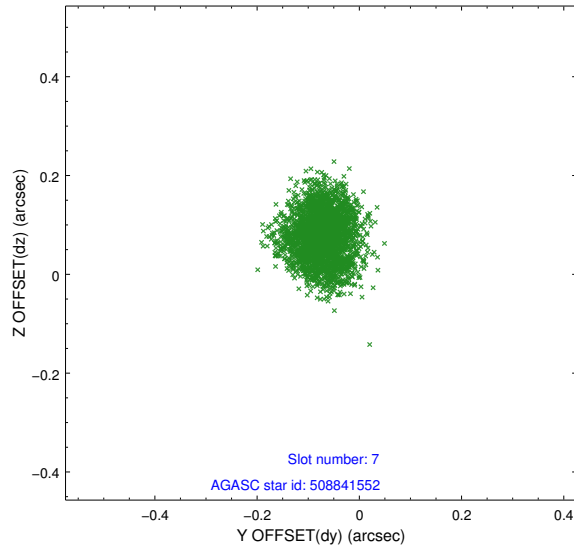


## 2.4.4 Slot 6



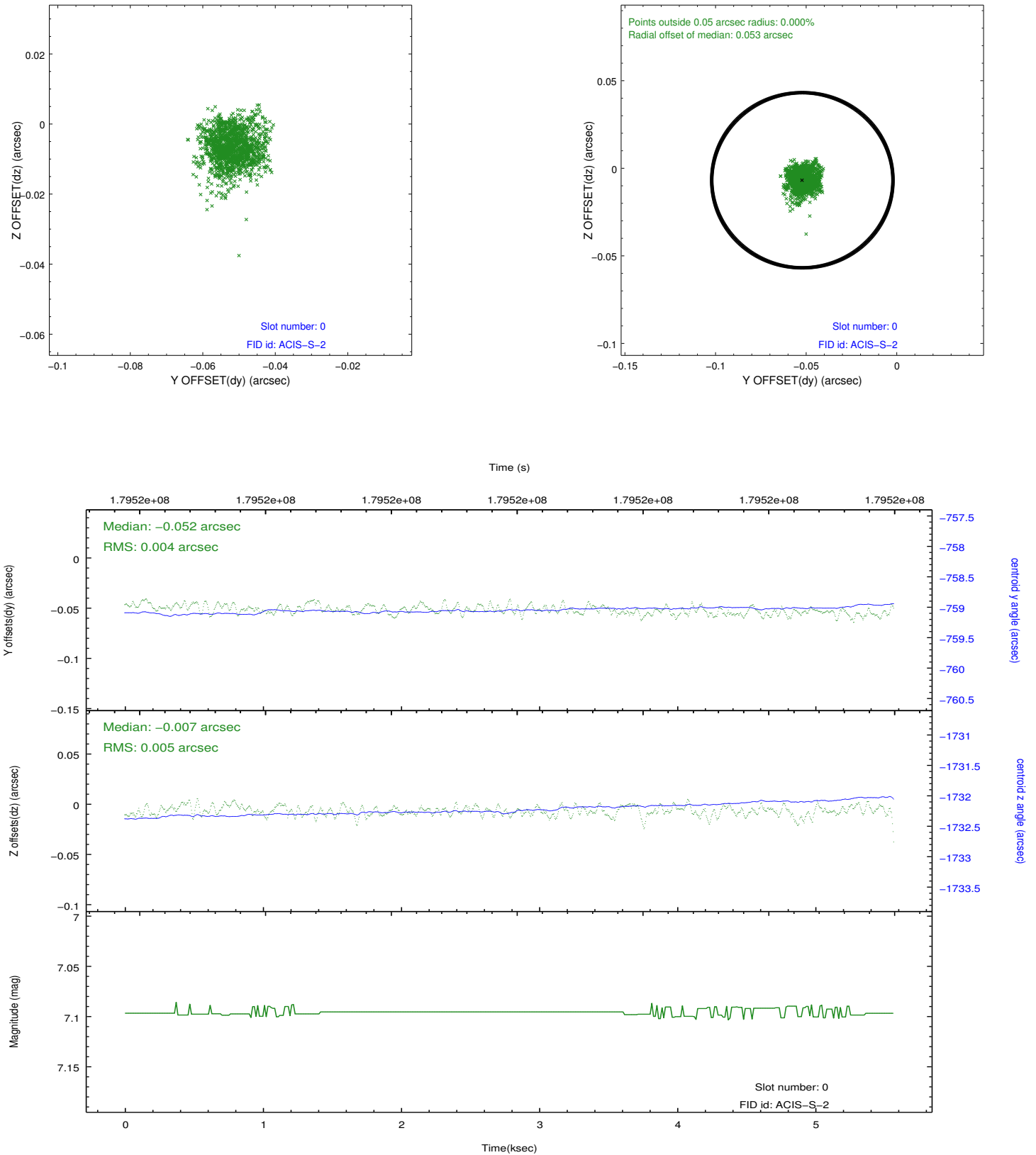


## 2.4.5 Slot 7

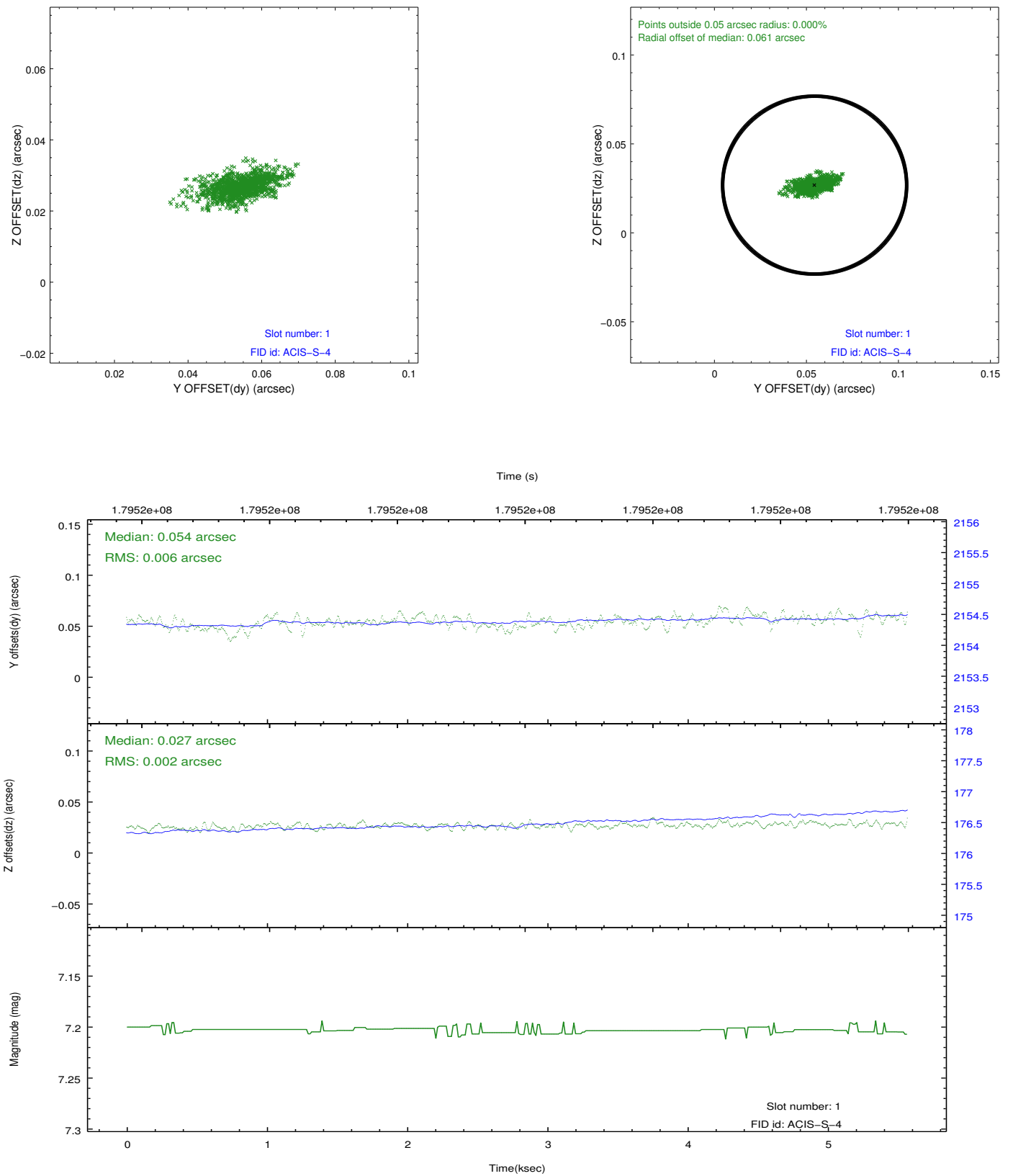


## 2.5 FID Slots

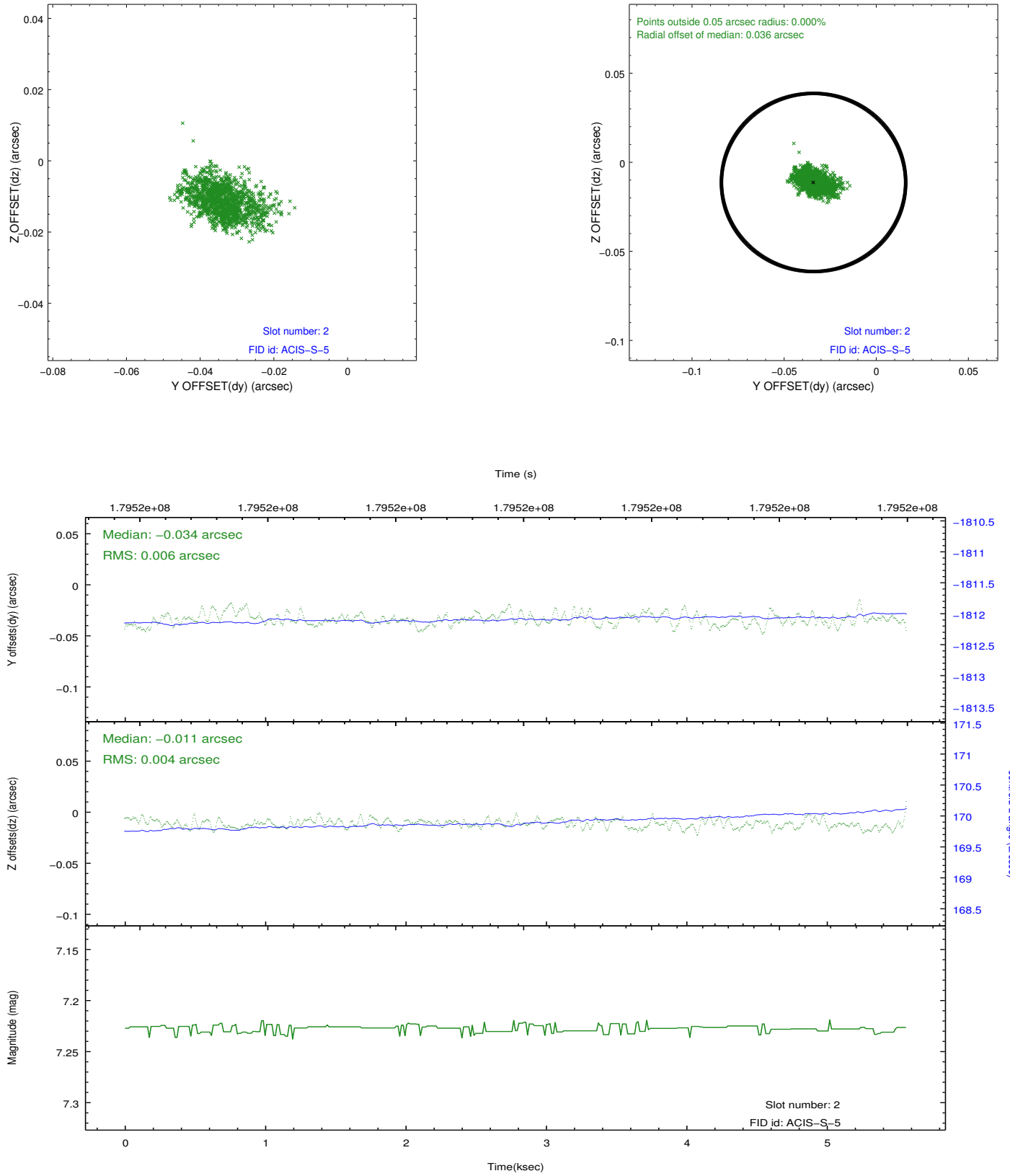
### 2.5.1 Slot 0



## 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	4.908

### A.2 Comments