

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 5870 - L2 Version 2  
Chandra X-Ray Center

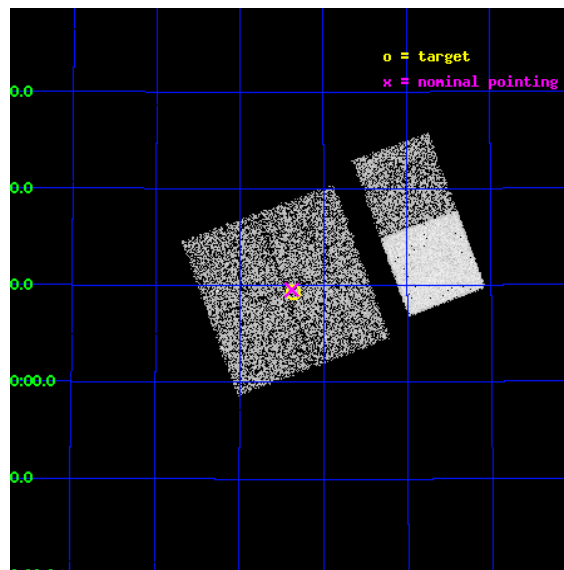
L2 Processing Date : Mar 24 2012

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# 1 Front

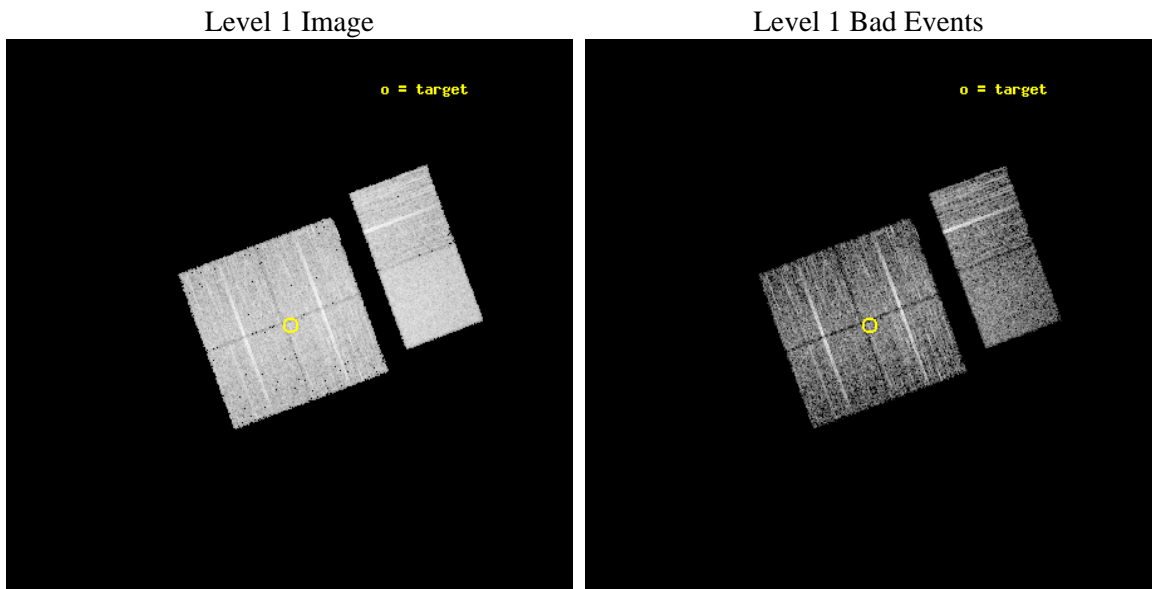
seq_num	900370	Sequence number
obs_id	5870	Observation id
title	The Spectral Energy Distributions of AGN: A Shallow Survey of the ELAIS-N1 Field	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	N1_16	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.58875	Observer's specified target RA [deg]
dec_targ	54.156194	Observer's specified target Dec [deg]
ra_nom	242.59412557541	Nominal RA [deg]
dec_nom	54.159531774987	Nominal Dec [deg]
roll_nom	69.634398495724	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4758.3999822736	Sum of GTIs [s]
livetime	4698.1462565335	Livetime [s]
ontime0	4758.3999822736	Sum of GTIs [s]
ontime1	4758.3999822736	Sum of GTIs [s]
ontime2	4758.3999822736	Sum of GTIs [s]
ontime3	4758.3999822736	Sum of GTIs [s]
ontime6	4758.3999822736	Sum of GTIs [s]
ontime7	4758.3999822736	Sum of GTIs [s]
l2events	42935	Number of level 2 events



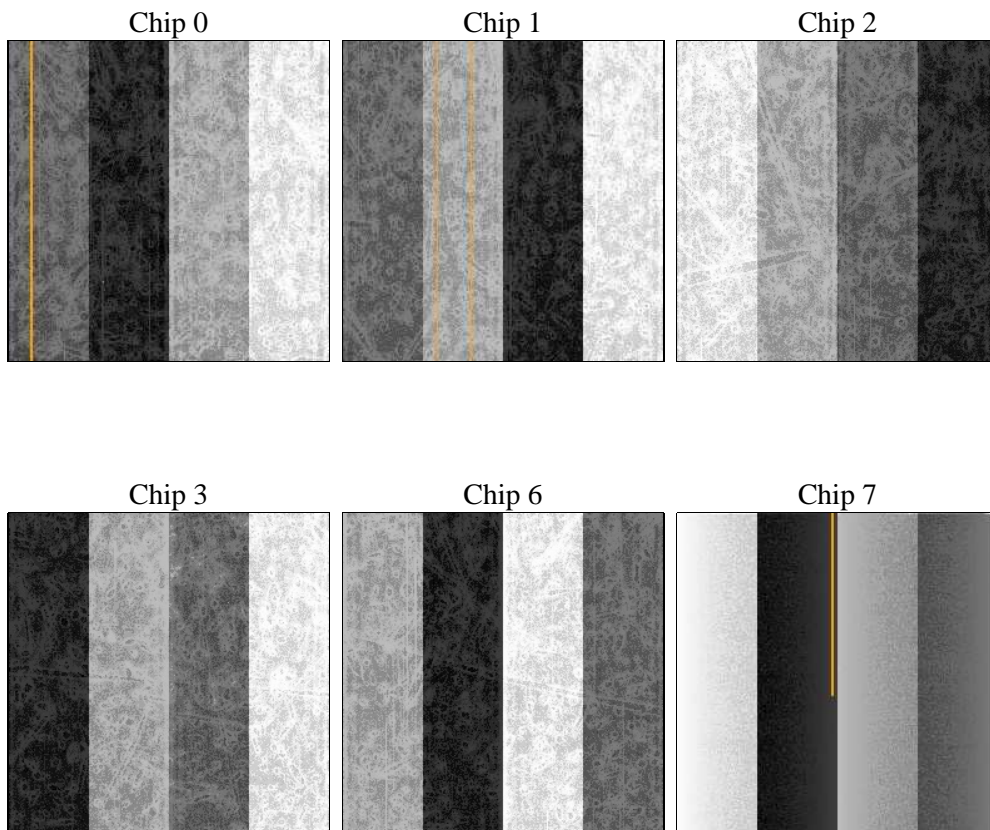
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4758.3999822736	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime0	4758.3999822736	Sum of GTIs [s]
date	2012-03-24T23:51:50	Date and time of file creation	ontime1	4758.3999822736	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4758.3999822736	Sum of GTIs [s]
			ontime3	4758.3999822736	Sum of GTIs [s]
			ontime6	4758.3999822736	Sum of GTIs [s]
			ontime7	4758.3999822736	Sum of GTIs [s]
			l1events	251072	Number of level 1 events

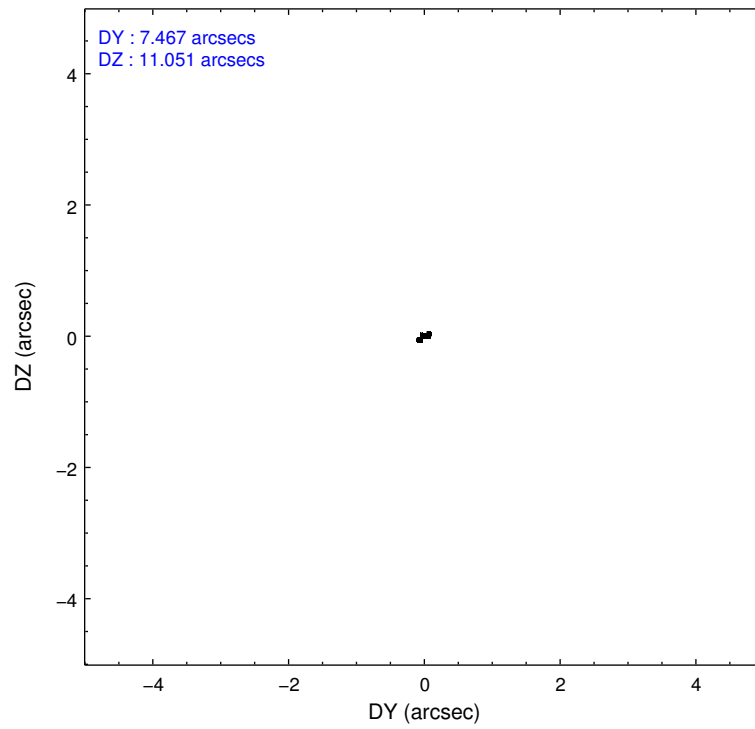
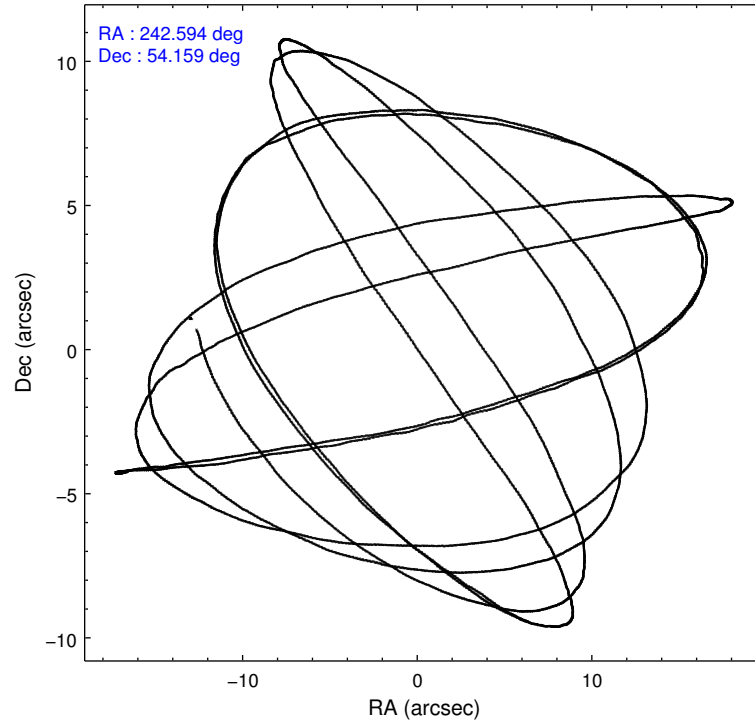
### 2.1.4 Events

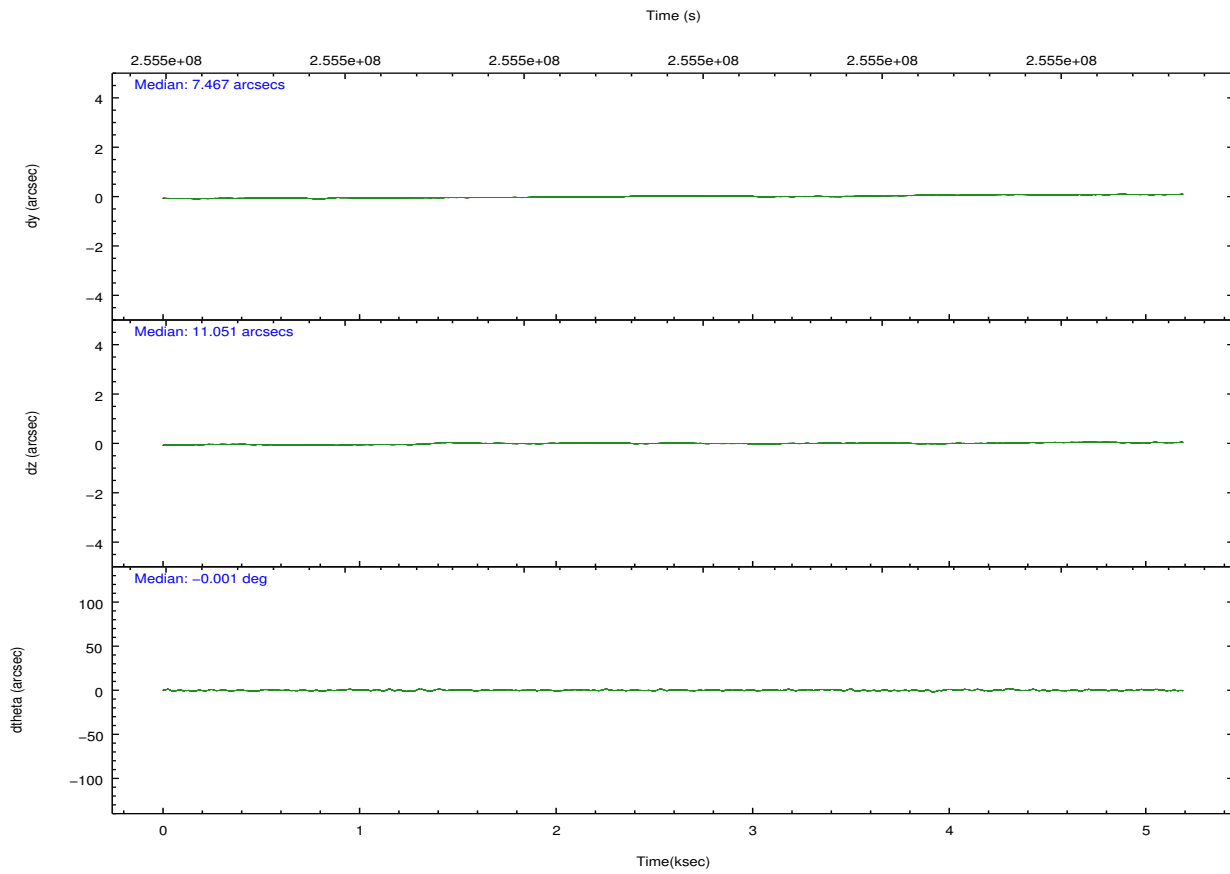
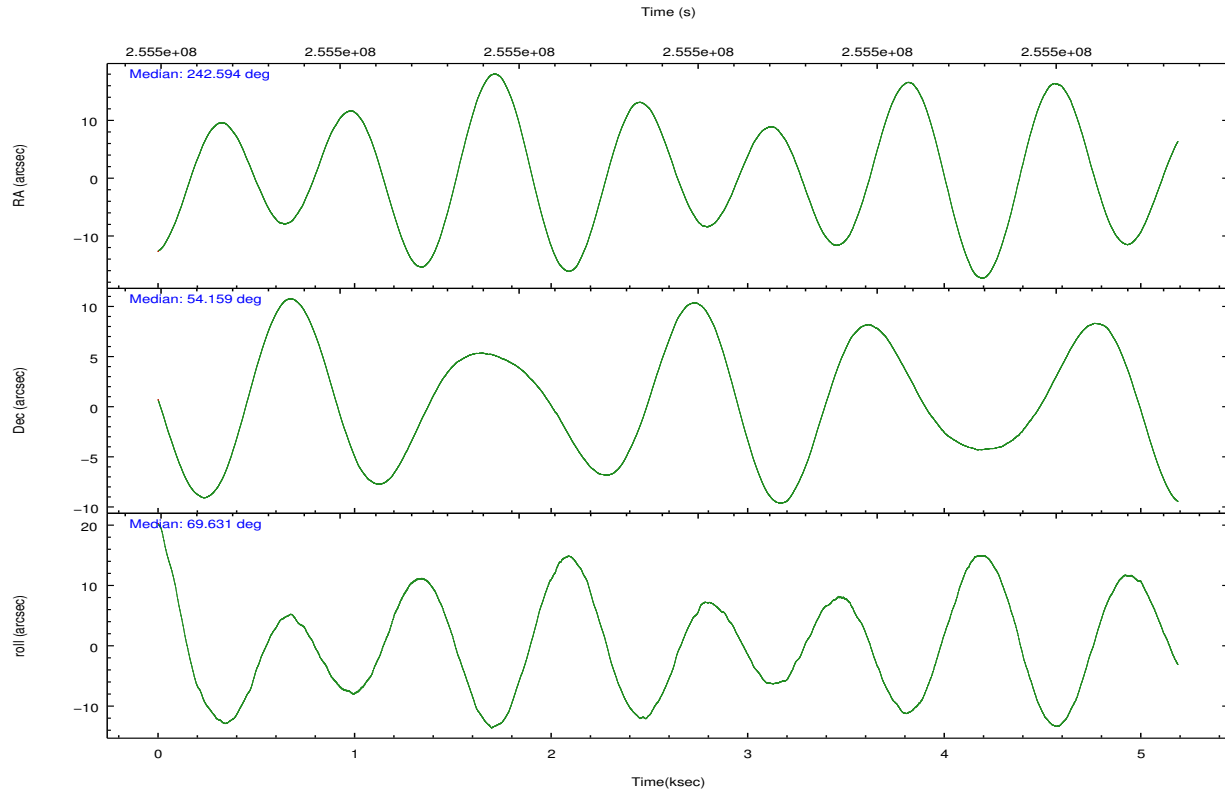
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	36941	35507	40208	40697	43089	54630	grade 0 events	2059	2044	2121	1978	1814	1987
rejected events	32138	30315	35516	36023	38338	31900		5%	5%	5%	4%	4%	3%
rejected %	86%	85%	88%	88%	88%	58%	grade 1 events	15	25	32	27	24	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1089	1111	953	927	1012	4516
								2%	3%	2%	2%	2%	8%
							grade 3 events	486	512	417	465	469	1979
								1%	1%	1%	1%	1%	3%
							grade 4 events	418	495	464	476	465	2036
								1%	1%	1%	1%	1%	3%
							grade 5 events	1647	1711	1495	1836	1969	5233
								4%	4%	3%	4%	4%	9%
							grade 6 events	761	1032	743	832	993	12226
								2%	2%	1%	2%	2%	22%
							grade 7 events	30466	28577	33983	34156	36343	26600
								82%	80%	84%	83%	84%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	242.602202	242.5941255754141	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.132589	54.15953177498735	Alternating exposures requested	N	N
[deg] Pointing Roll	69.419172	69.6343984957235	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	255500429.184000	255500053.50684			
Observation start date	2006-02-05T04:19:24	2006-02-05T04:14:13			
[s] Observation end time (MET)	255505429.184000	255505562.88209			
Observation end date	2006-02-05T05:42:44	2006-02-05T05:46:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect



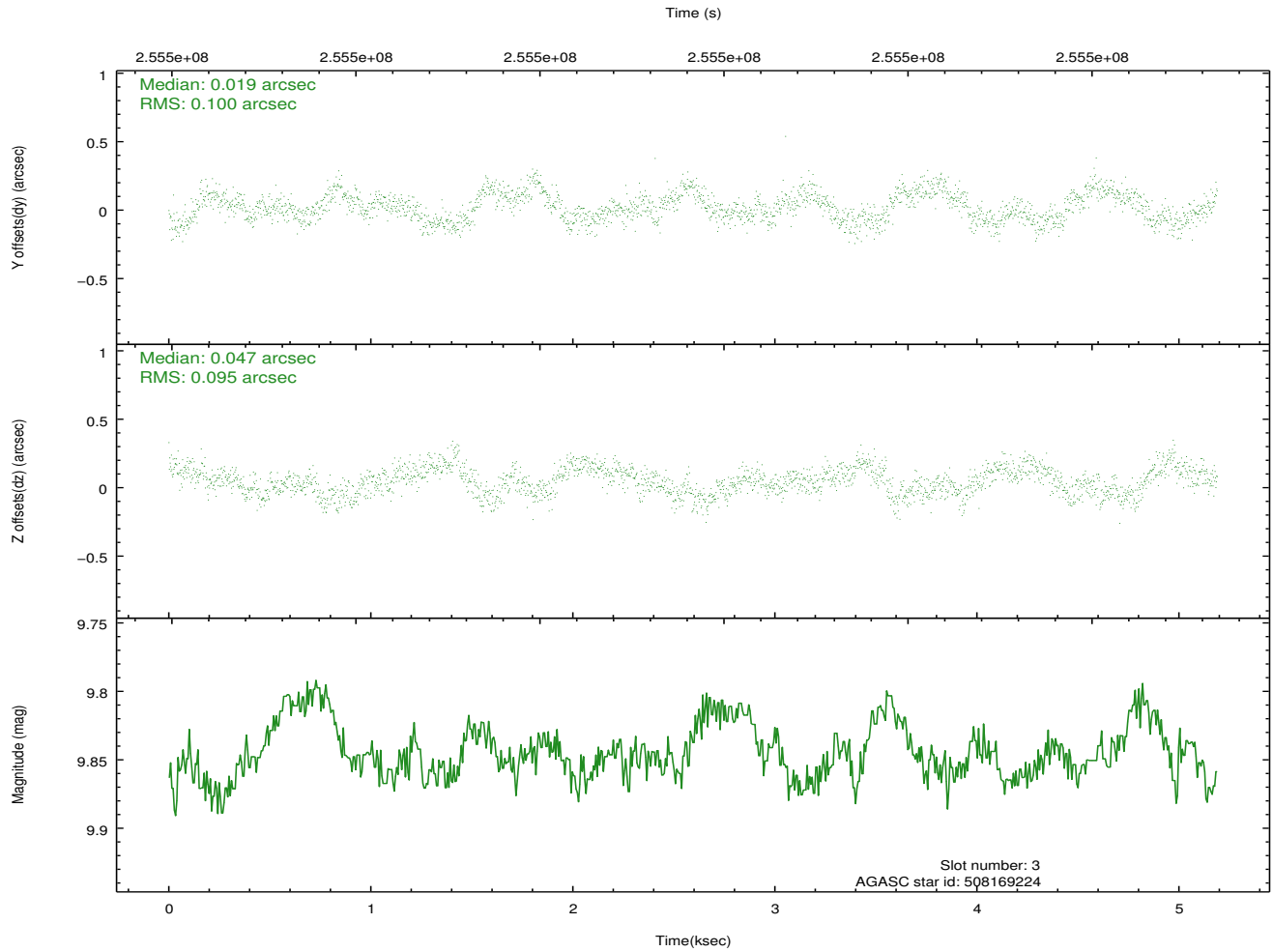
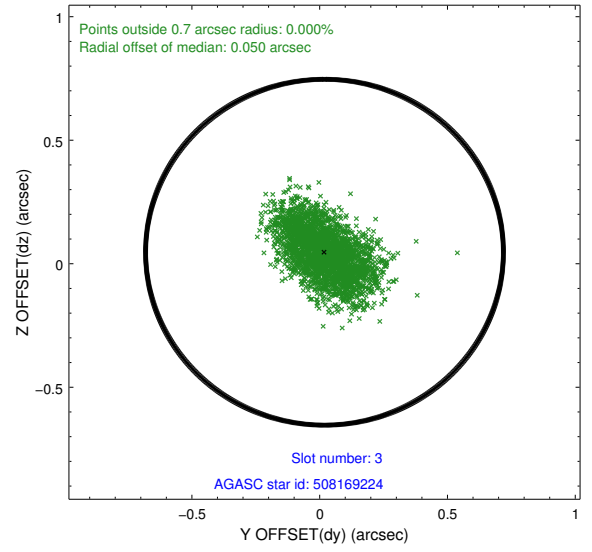
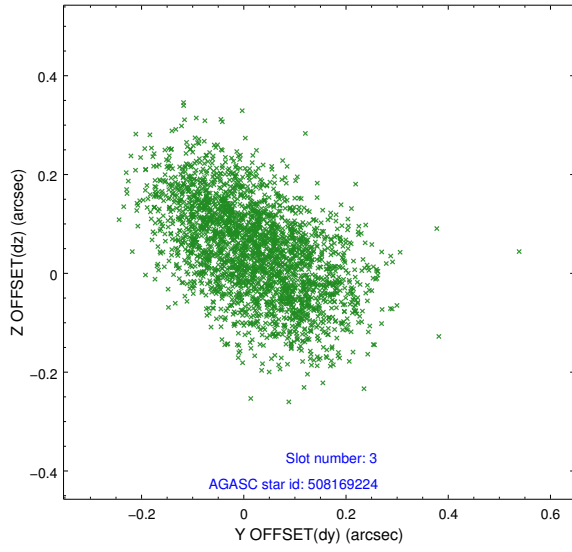


### Slot Statistics

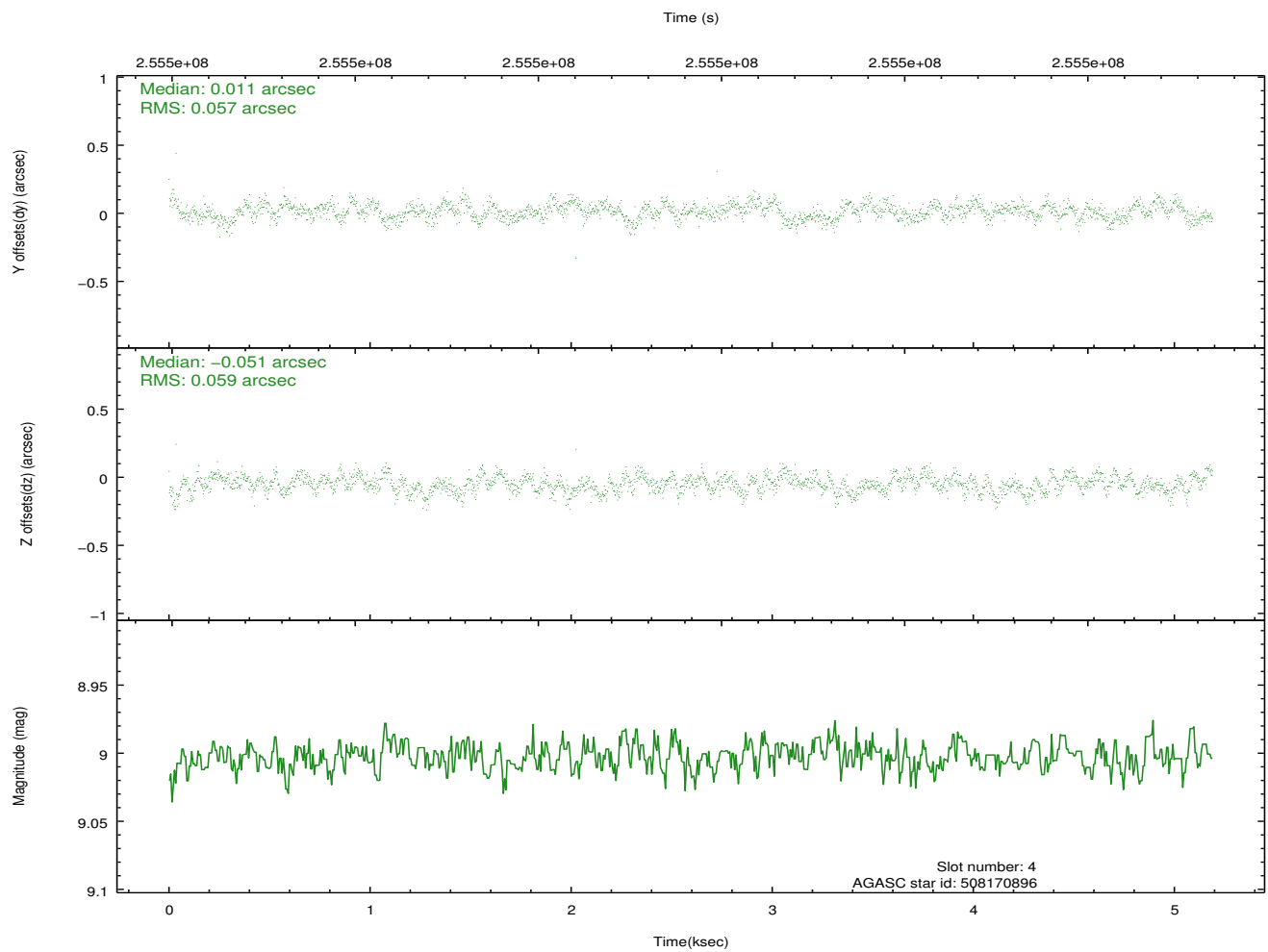
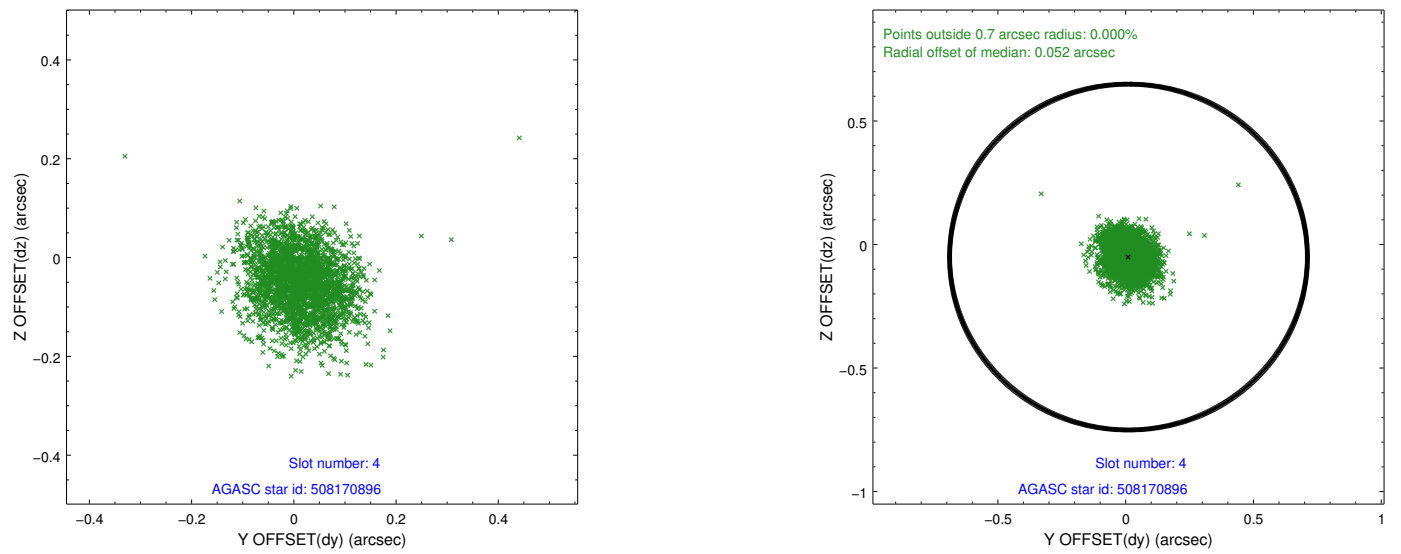
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1266	-0.012	-0.051	0.008	0.014	0.000000	0.000000	932.18	-834.60
1	FID	ACIS-I-4	7.18	1266	0.134	0.065	0.009	0.015	0.000000	0.000000	2153.04	1064.72
2	FID	ACIS-I-5	7.22	1266	-0.220	0.057	0.008	0.017	0.000000	0.000000	-1814.50	1063.94
3	GUIDE	508169224	9.85	2531	0.019	0.047	0.149	0.239	242.580277	53.826359	-1047.87	-343.84
4	GUIDE	508170896	9.00	2531	0.011	-0.051	0.087	0.138	242.052968	54.527984	933.44	1576.10
5	GUIDE	508172800	7.91	2532	-0.222	-0.094	0.074	0.119	242.573753	54.657892	1750.21	721.00
6	GUIDE	508180600	9.28	2528	0.151	0.110	0.082	0.129	243.000865	53.504406	-1813.38	-1592.92
7	GUIDE	508183040	9.47	2529	0.036	-0.002	0.107	0.179	243.957509	54.419234	1989.53	-2285.71

## 2.4 Star Slots

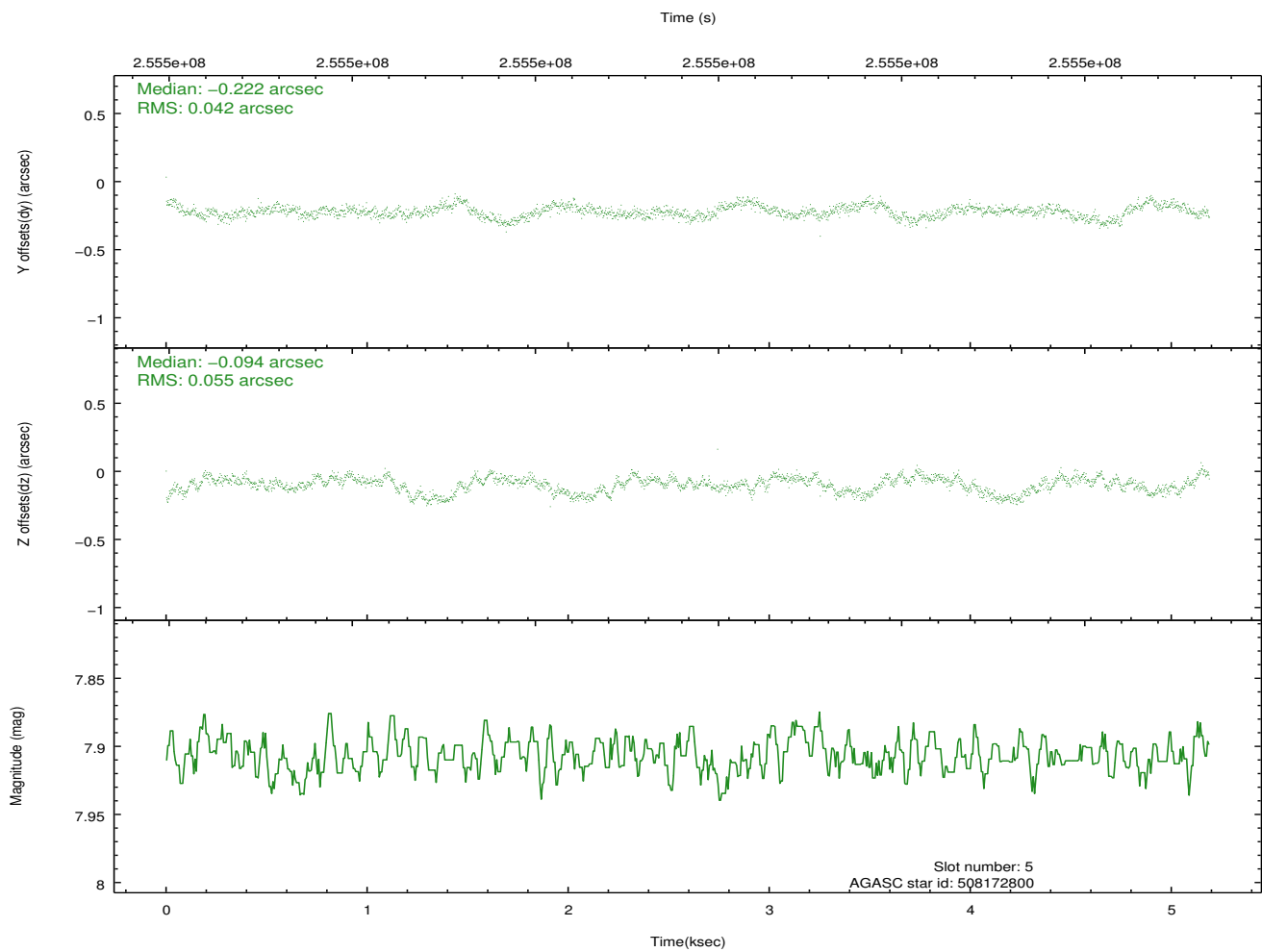
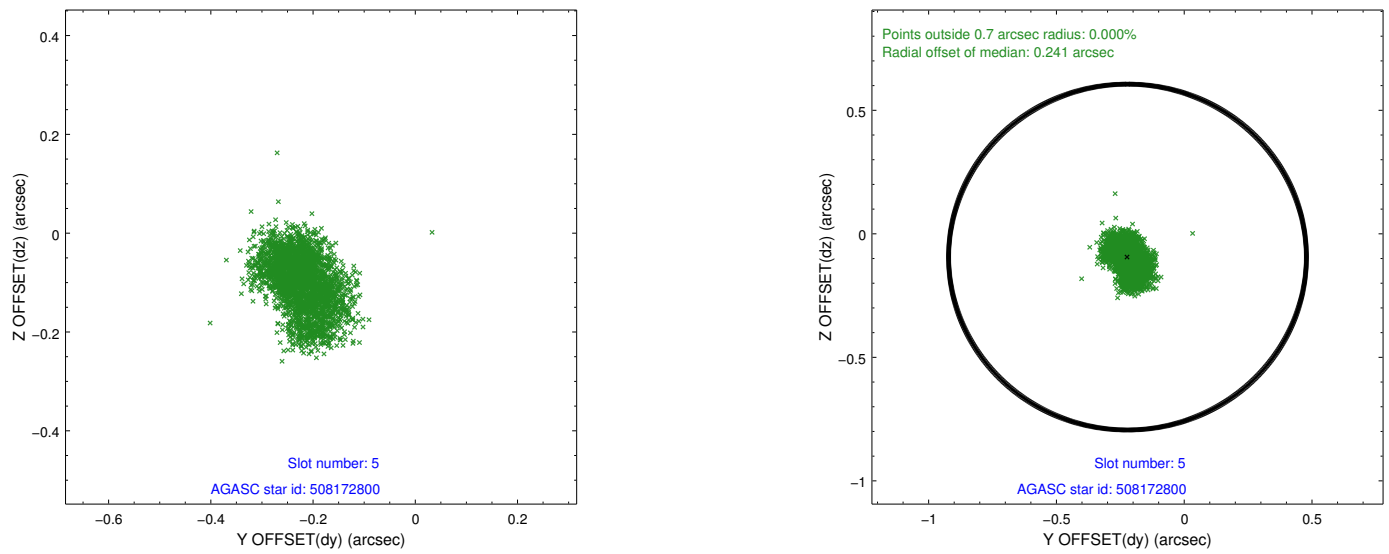
### 2.4.1 Slot 3



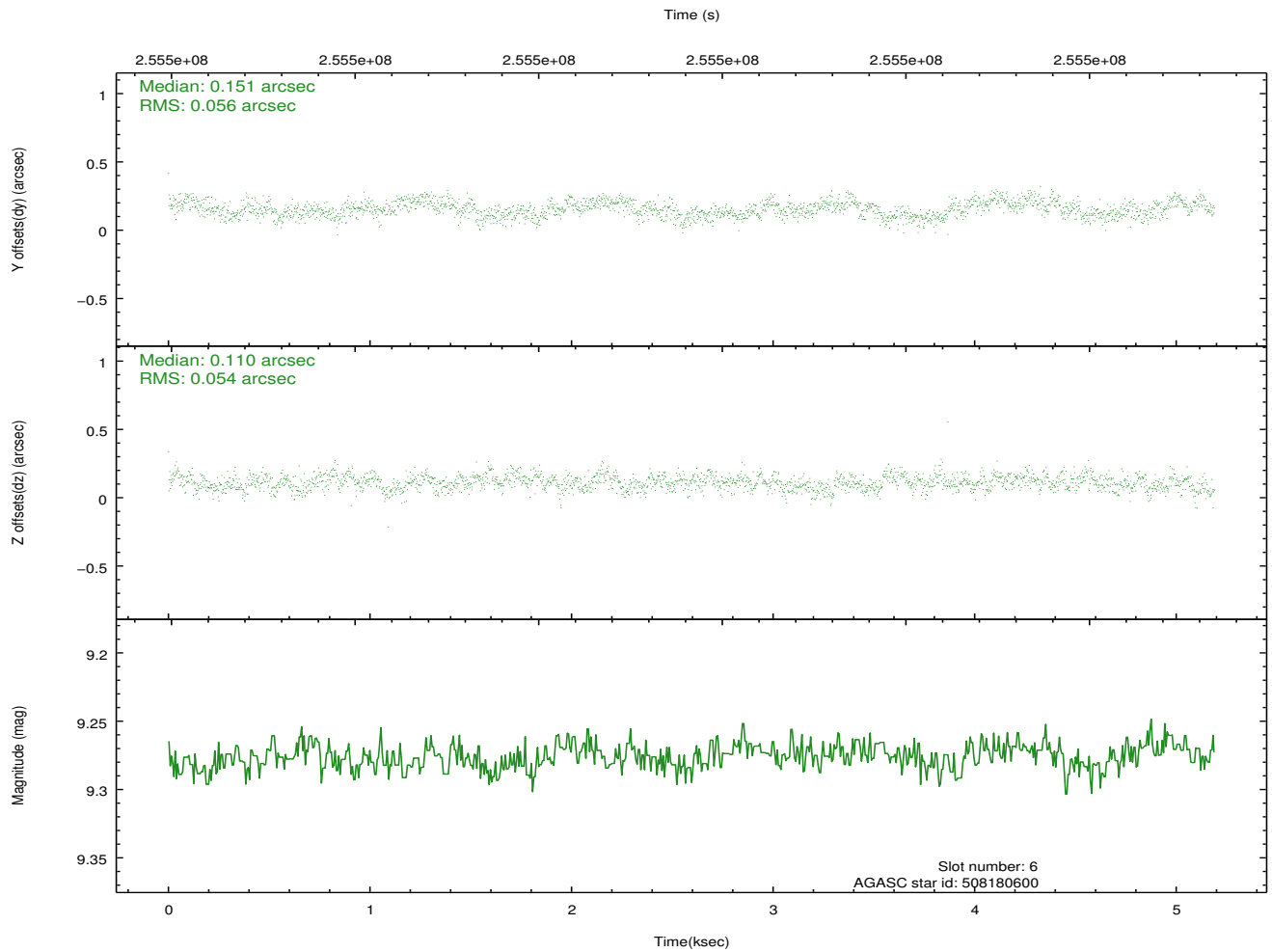
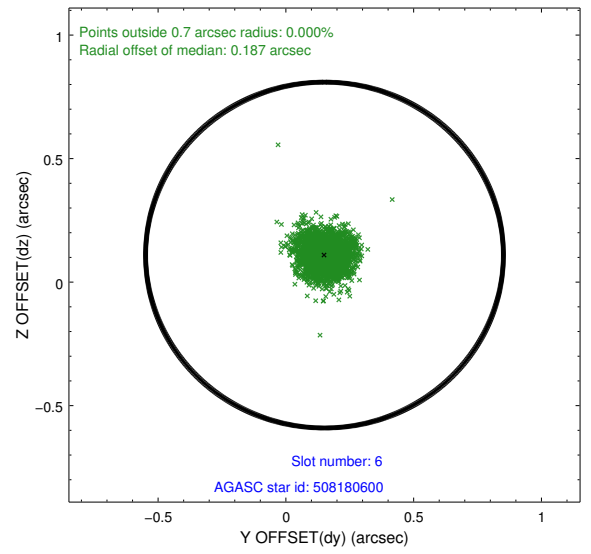
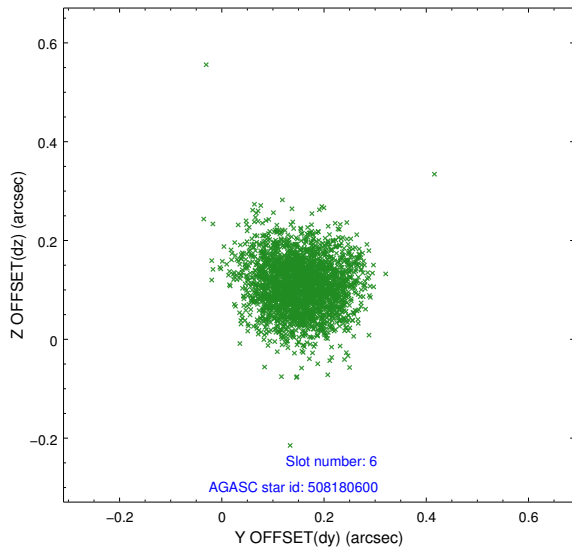
## 2.4.2 Slot 4



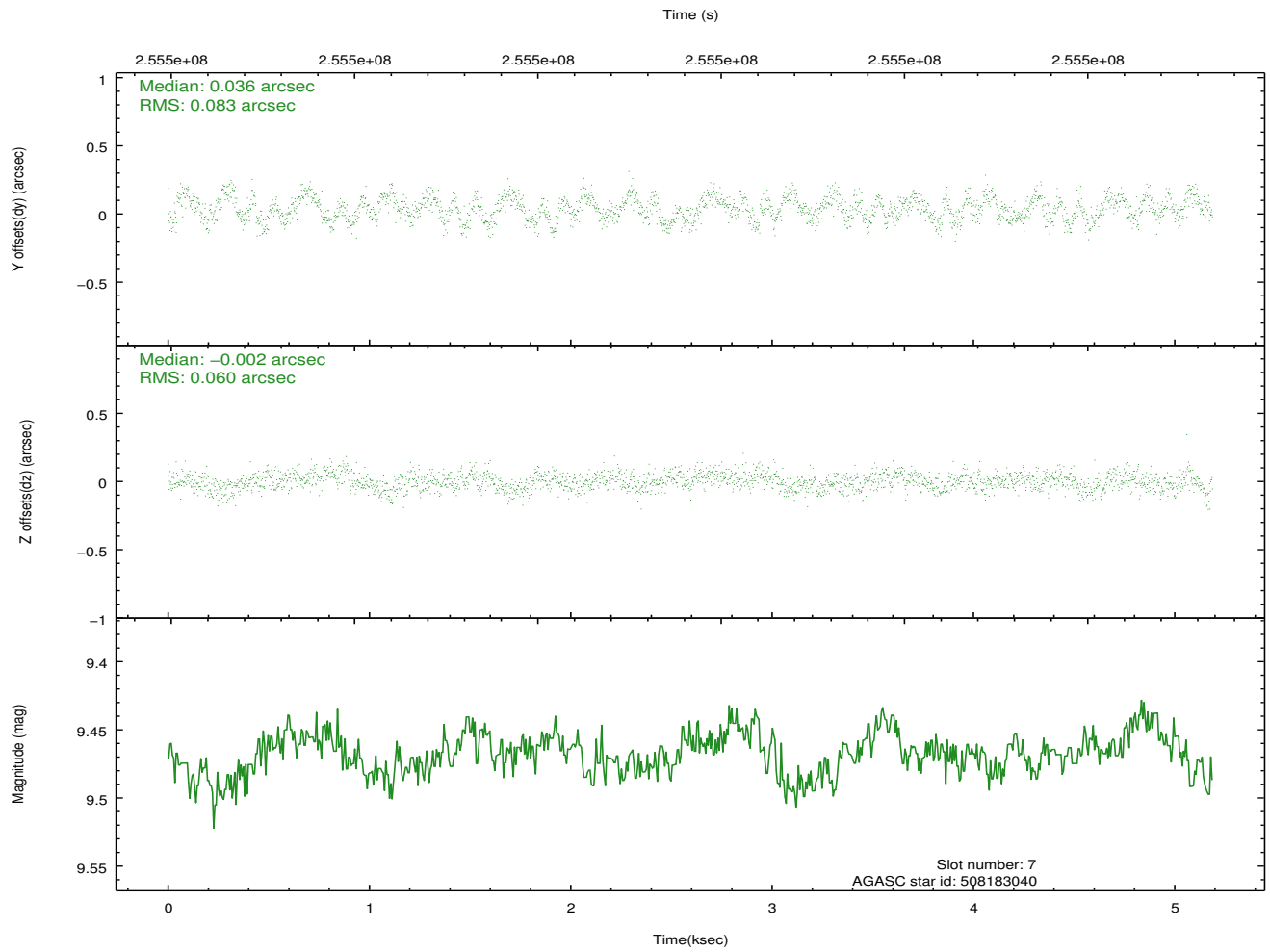
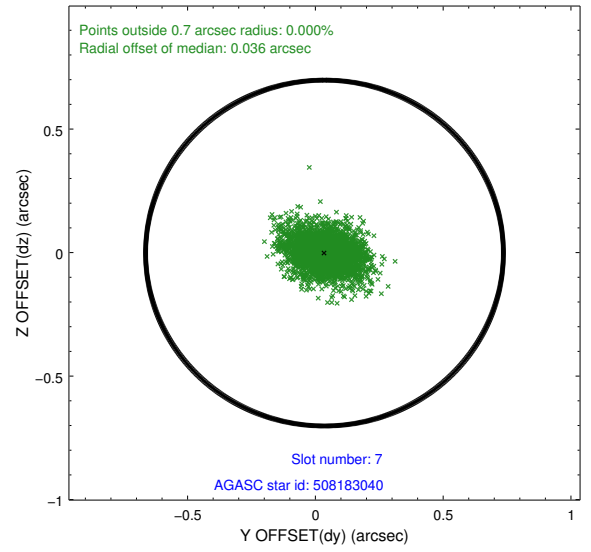
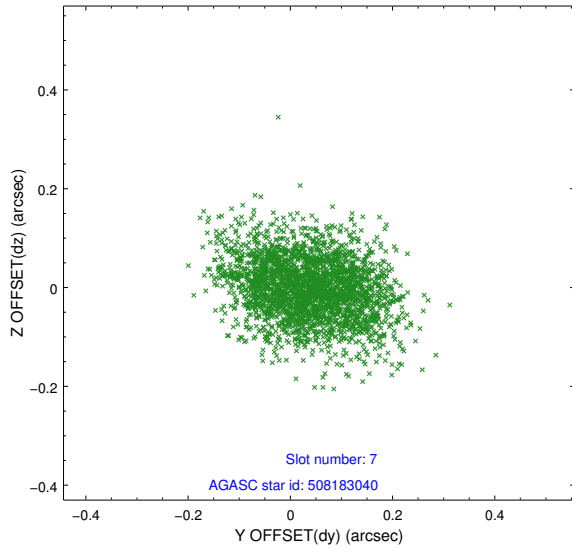
### 2.4.3 Slot 5



### 2.4.4 Slot 6

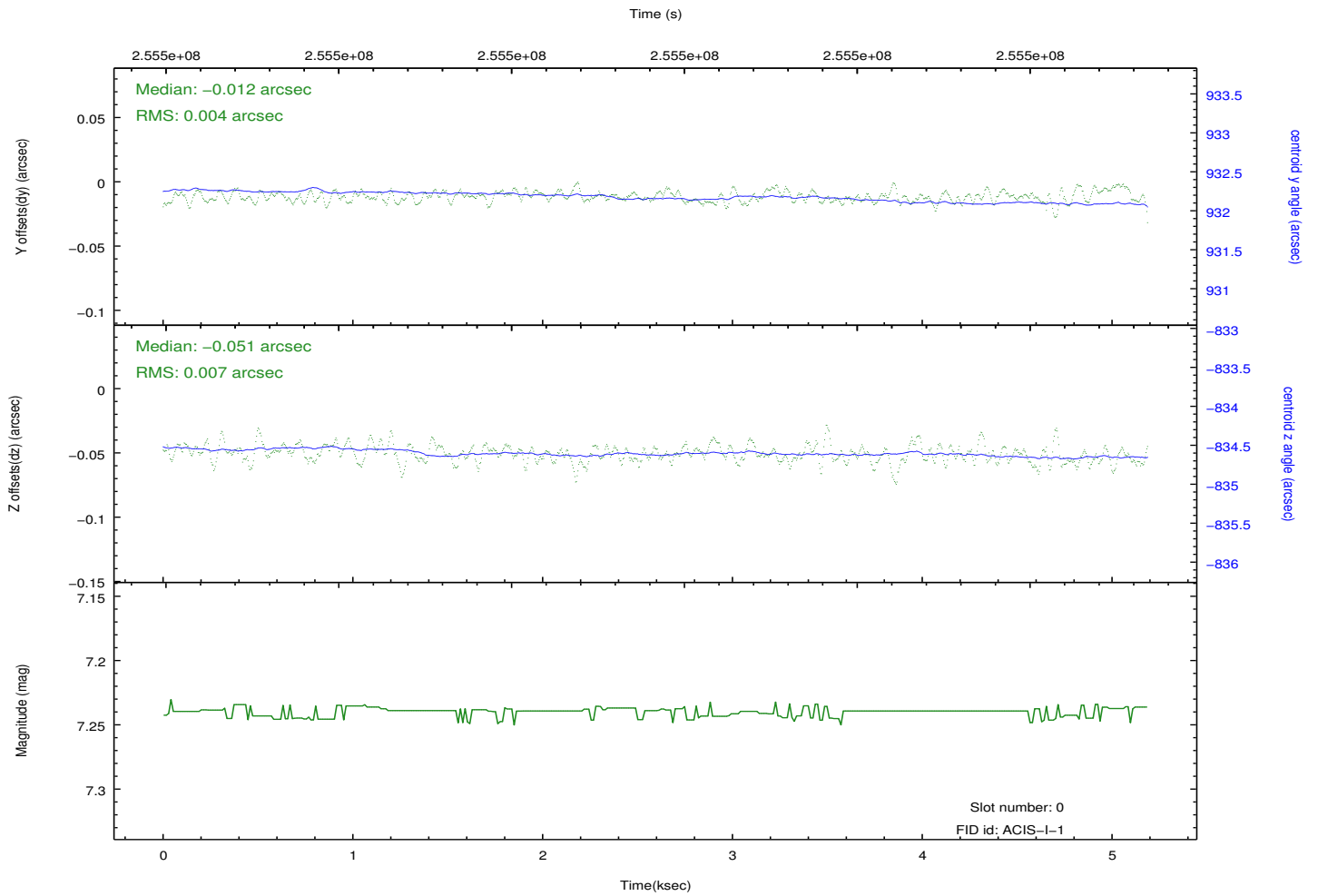
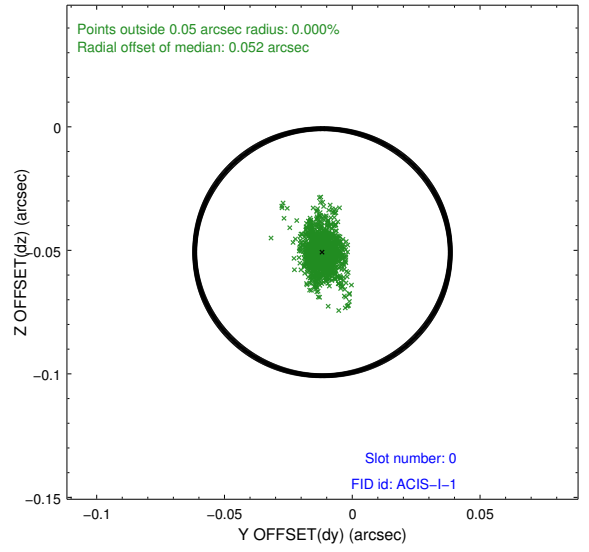
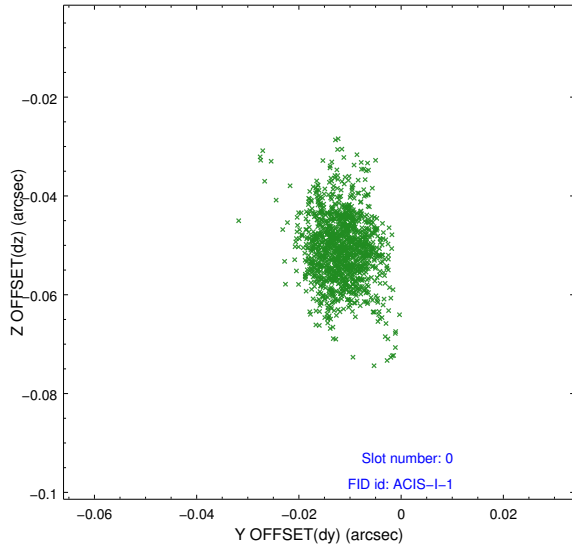


### 2.4.5 Slot 7

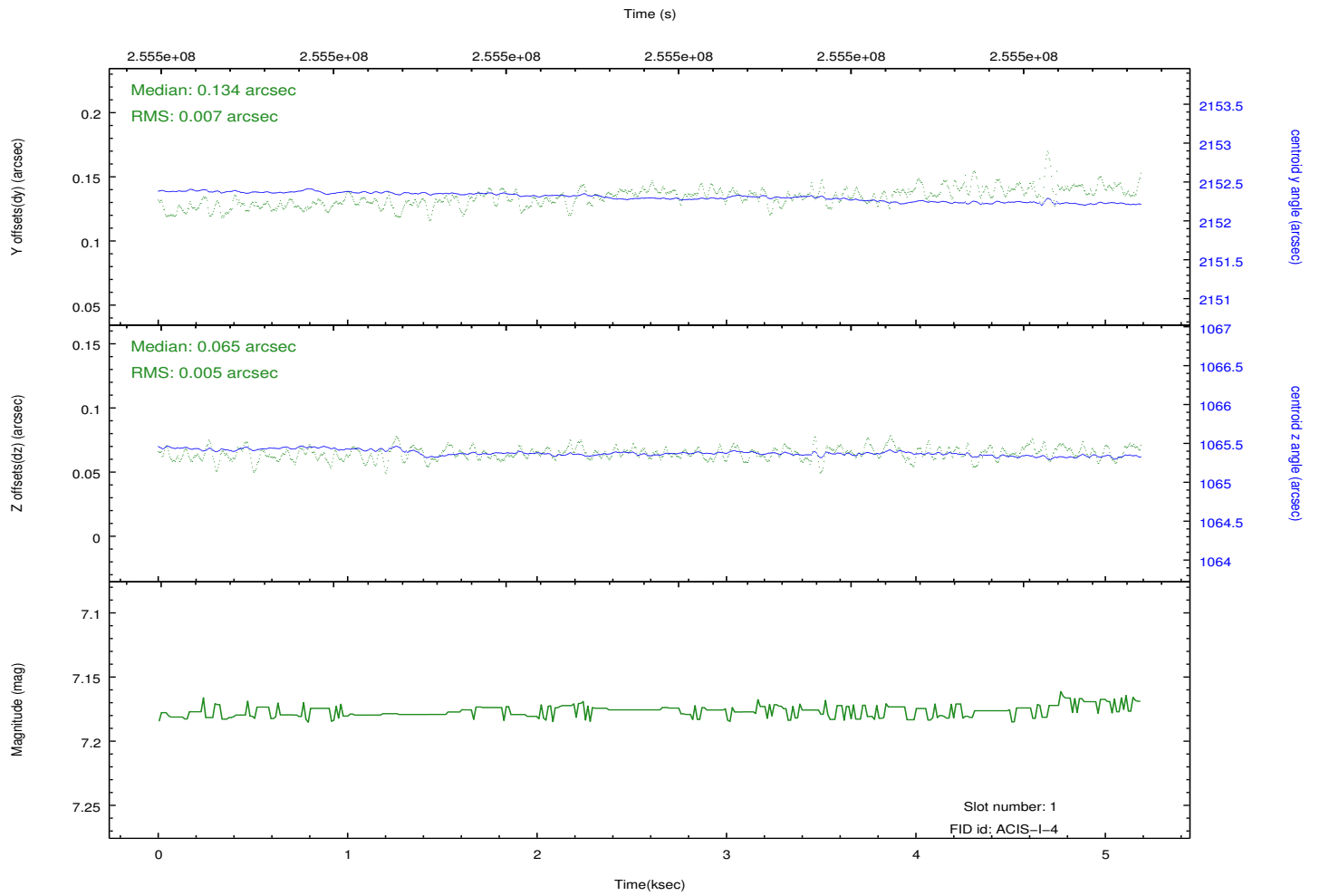
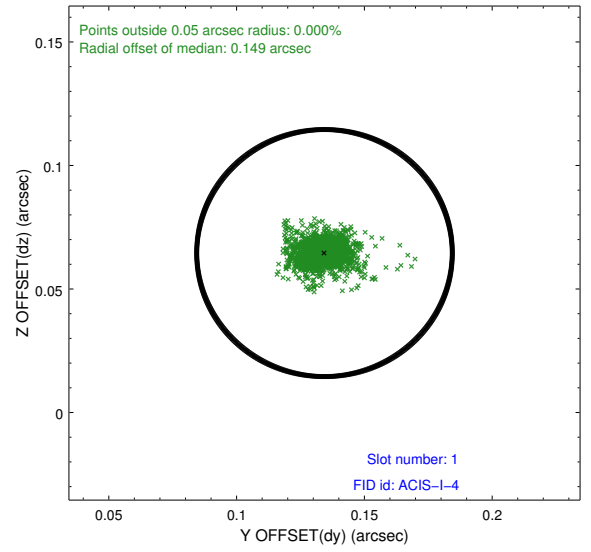
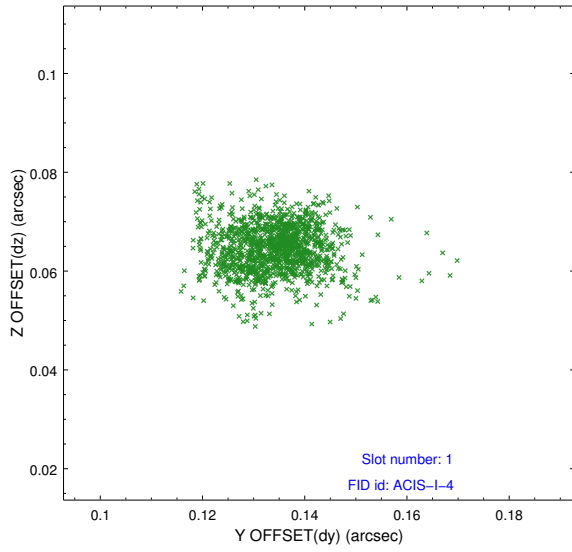


## 2.5 FID Slots

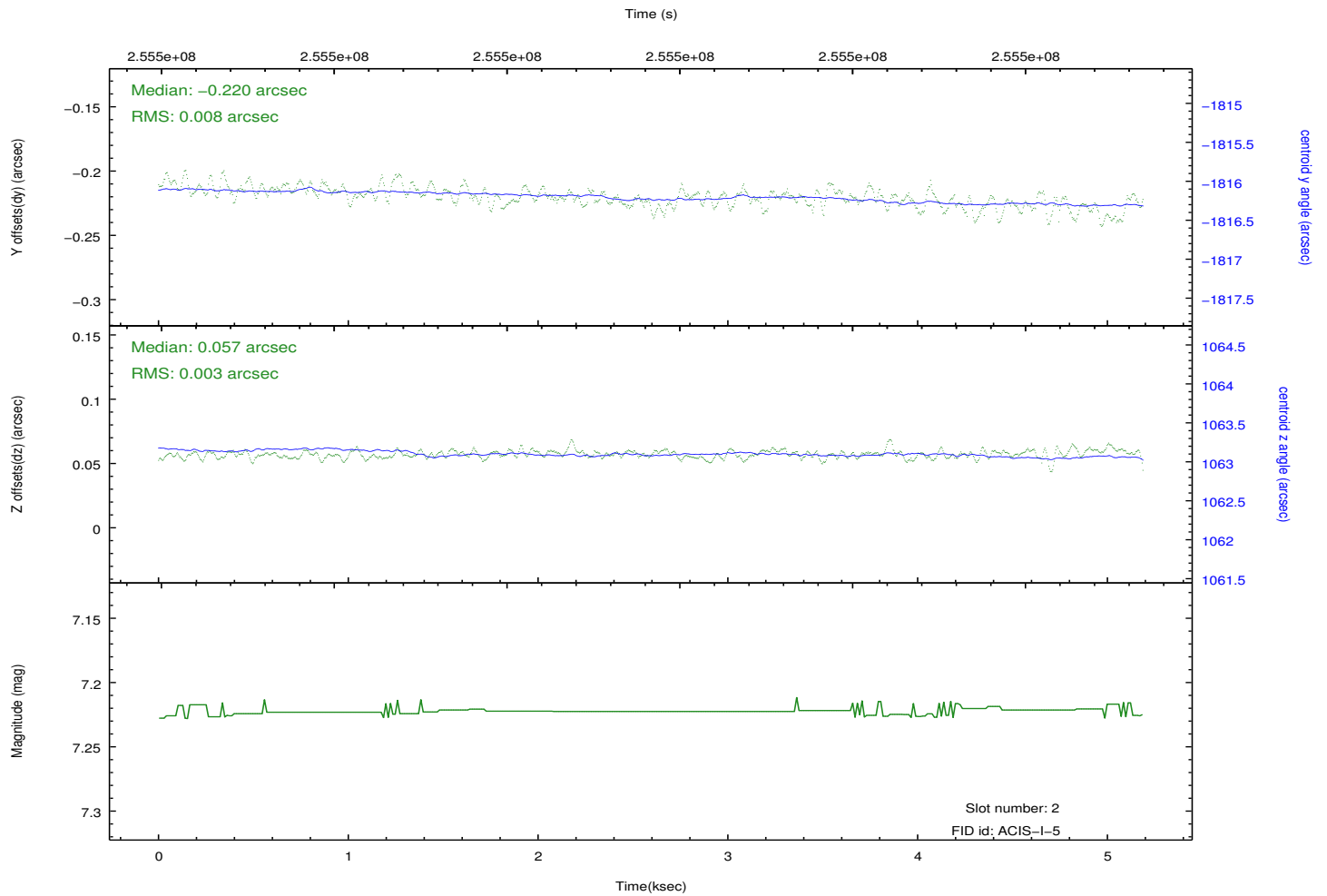
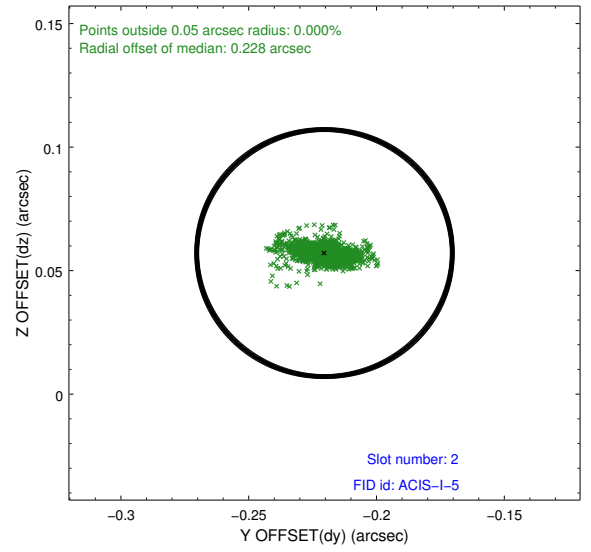
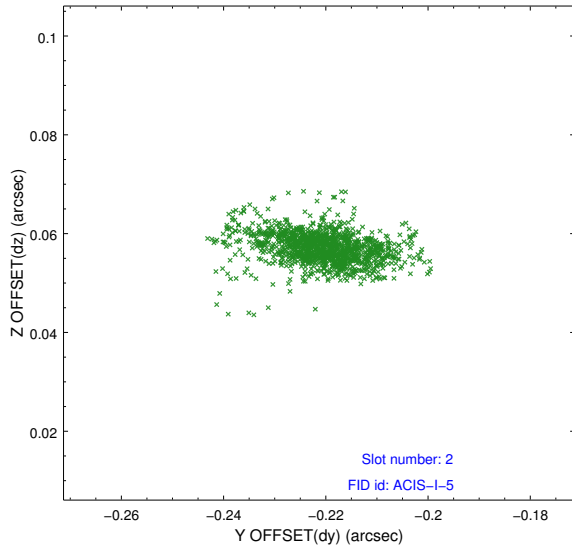
### 2.5.1 Slot 0



## 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)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.75839998

## A.2 Comments