

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9157 - L2 Version 2  
Chandra X-Ray Center

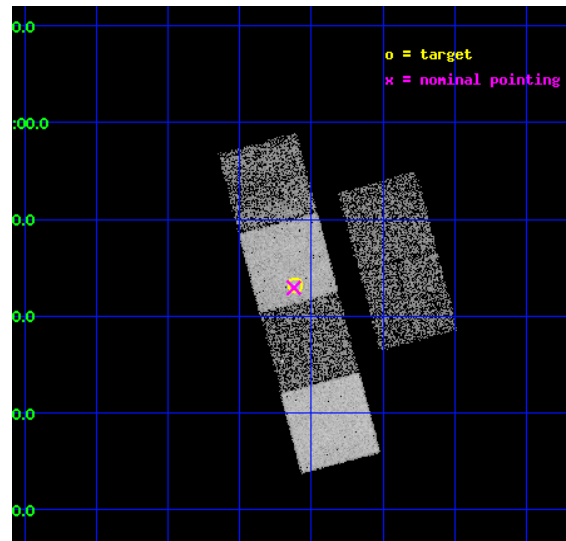
L2 Processing Date : May 13 2012

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# 1 Front

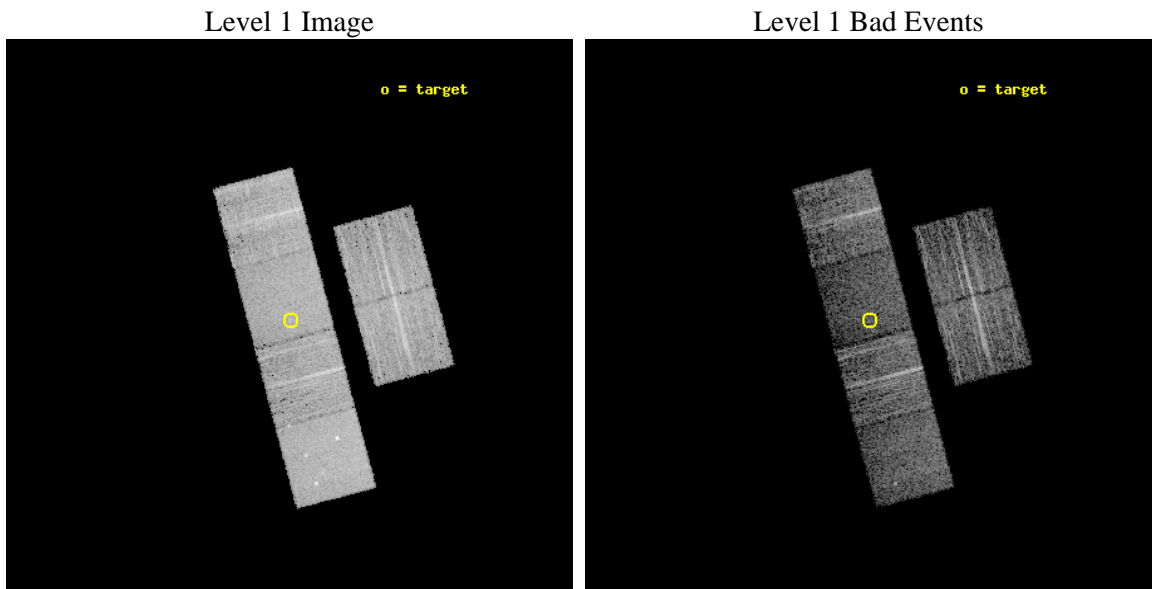
seq_num	701599	Sequence number
obs_id	9157	Observation id
title	Chandra ACIS Snapshots of the Brightest Radio-Loud Broad Absorption Line Quasars in the SDSS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J112506.95-001647.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	171.279167	Observer's specified target RA [deg]
dec_targ	-0.279889	Observer's specified target Dec [deg]
ra_nom	171.28059286653	Nominal RA [deg]
dec_nom	-0.28446359541411	Nominal Dec [deg]
roll_nom	255.15666478234	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5177.5999807715	Sum of GTIs [s]
livetime	5112.0380922386	Livetime [s]
ontime2	5177.5999807715	Sum of GTIs [s]
ontime3	5177.5999807715	Sum of GTIs [s]
ontime5	5177.5999807715	Sum of GTIs [s]
ontime6	5174.3590103984	Sum of GTIs [s]
ontime7	5177.5999807715	Sum of GTIs [s]
ontime8	5177.5999807715	Sum of GTIs [s]
l2events	62110	Number of level 2 events



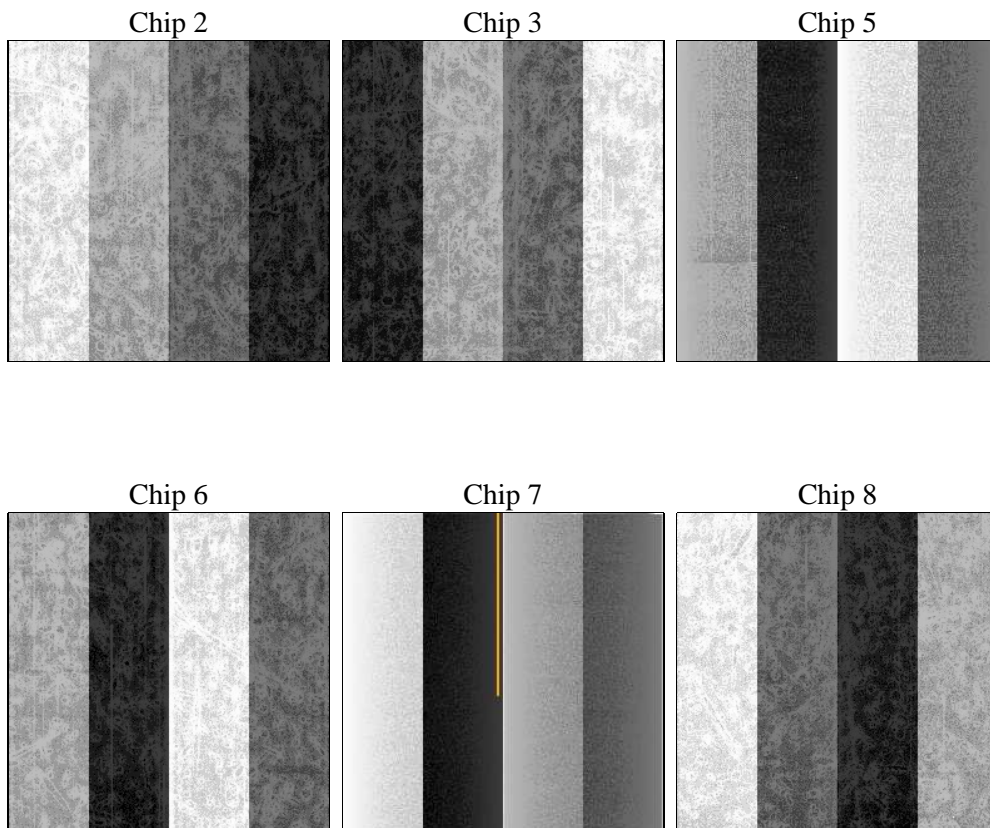
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	5177.5999807715	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5177.5999807715	Sum of GTIs [s]
date	2012-05-13T13:30:55	Date and time of file creation	ontime3	5177.5999807715	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5177.5999807715	Sum of GTIs [s]
			ontime6	5174.3590103984	Sum of GTIs [s]
			ontime7	5177.5999807715	Sum of GTIs [s]
			ontime8	5177.5999807715	Sum of GTIs [s]
			l1events	297279	Number of level 1 events

### 2.1.4 Events

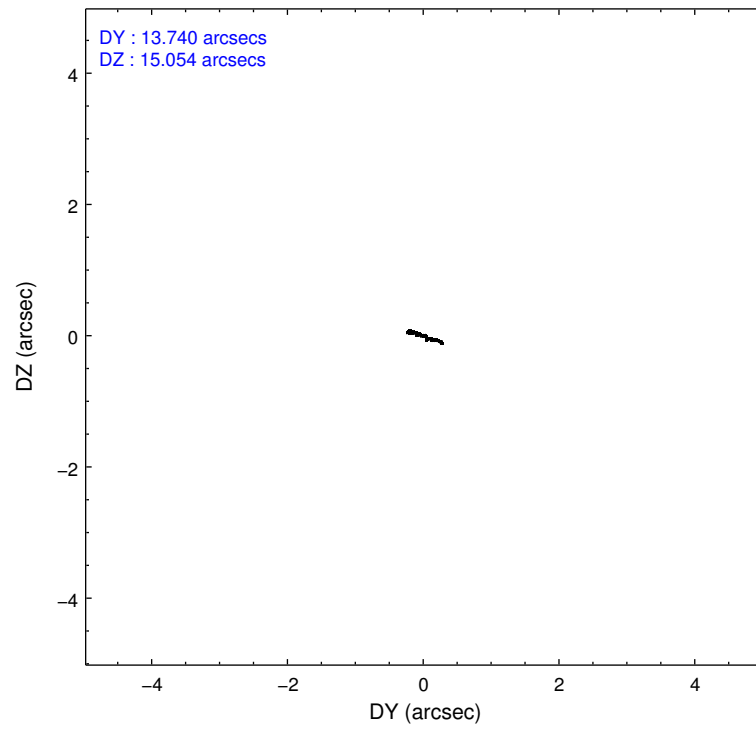
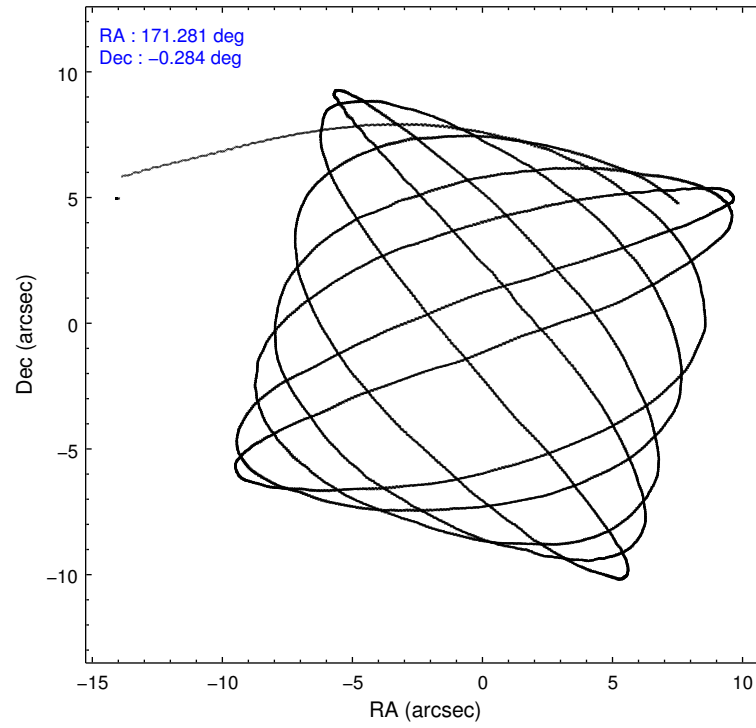
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45547	41726	61717	44939	48285	55065	grade 0 events	1555	1337	3502	1609	2095	4096
rejected events	41476	37977	32502	40581	27440	42349		3%	3%	5%	3%	4%	7%
rejected %	91%	91%	52%	90%	56%	76%	grade 1 events	36	21	142	19	68	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	1012	842	9194	982	4541	3133
								2%	2%	14%	2%	9%	5%
							grade 3 events	431	524	1273	533	1917	1408
								0%	1%	2%	1%	3%	2%
							grade 4 events	446	449	1089	496	1966	1293
								0%	1%	1%	1%	4%	2%
							grade 5 events	1553	1710	4899	1823	4958	2440
								3%	4%	7%	4%	10%	4%
							grade 6 events	818	781	15793	1001	11455	3485
								1%	1%	25%	2%	23%	6%
							grade 7 events	39696	36062	25825	38476	21285	39155
								87%	86%	41%	85%	44%	71%

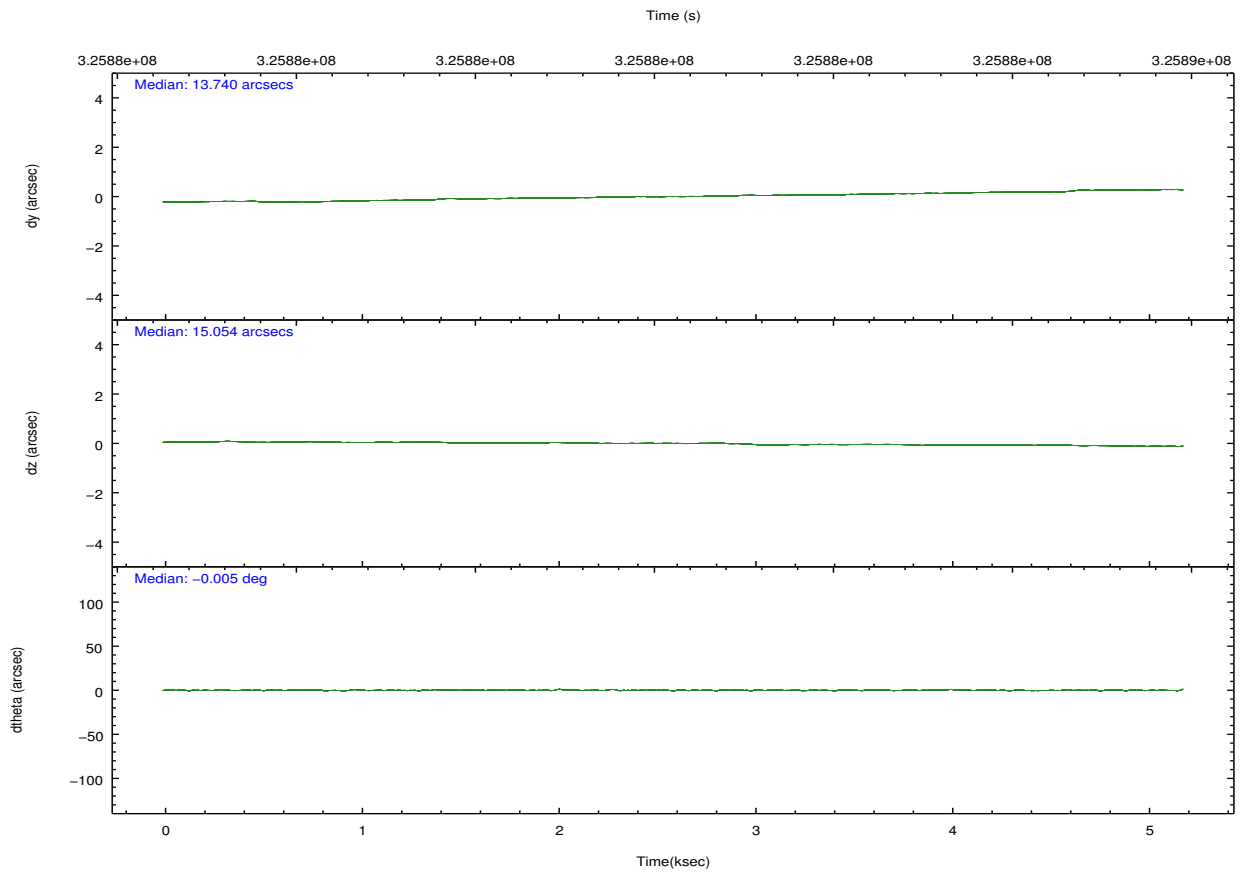
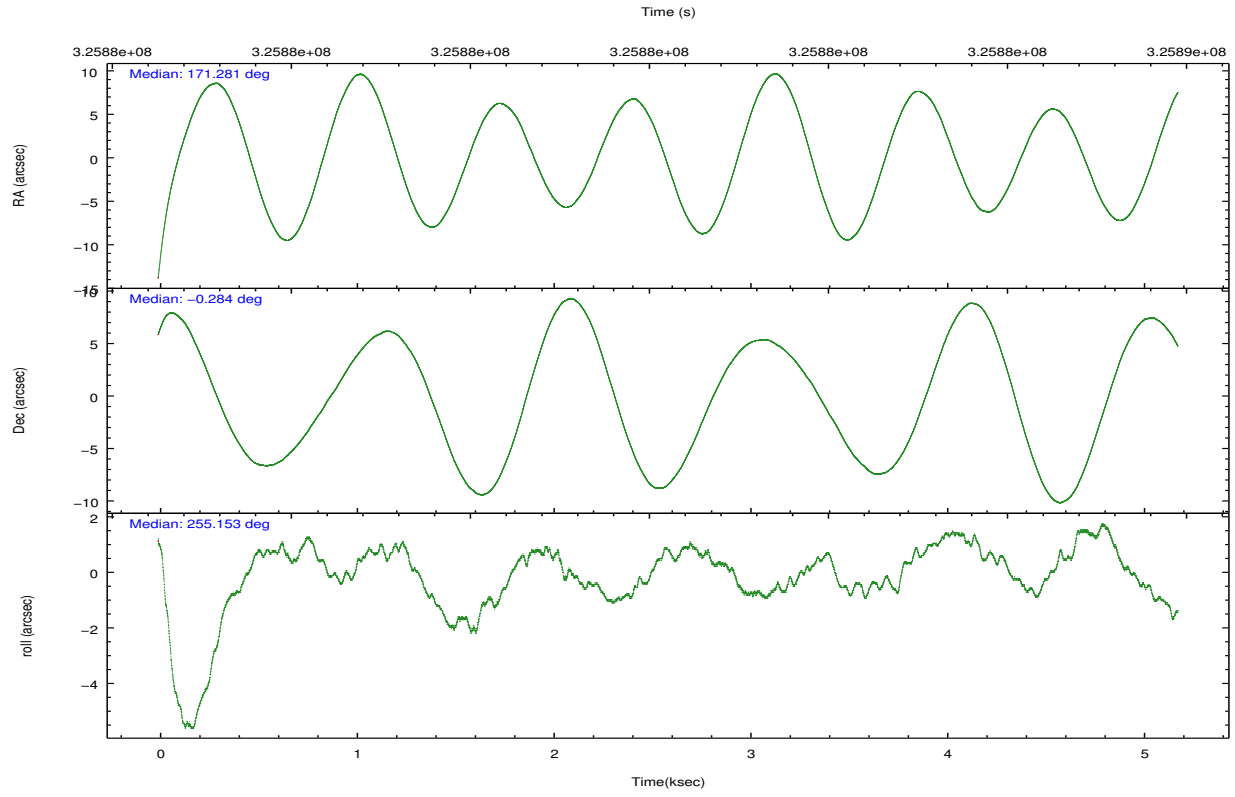


## 2.2 Compared Parameters

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	171.273060	171.2805928665326	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.258235	-0.2844635954141109	CCD I3 on	O2	Y
[deg] Pointing Roll	254.999975	255.1566647823371	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	325880682.184000	325879470.41803	CCD S5 on	N	N
Observation start date	2008-04-29T18:23:37	2008-04-29T18:04:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	325885682.184000	325886144.19336	On-chip summing requested	N	N
Observation end date	2008-04-29T19:46:57	2008-04-29T19:55:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



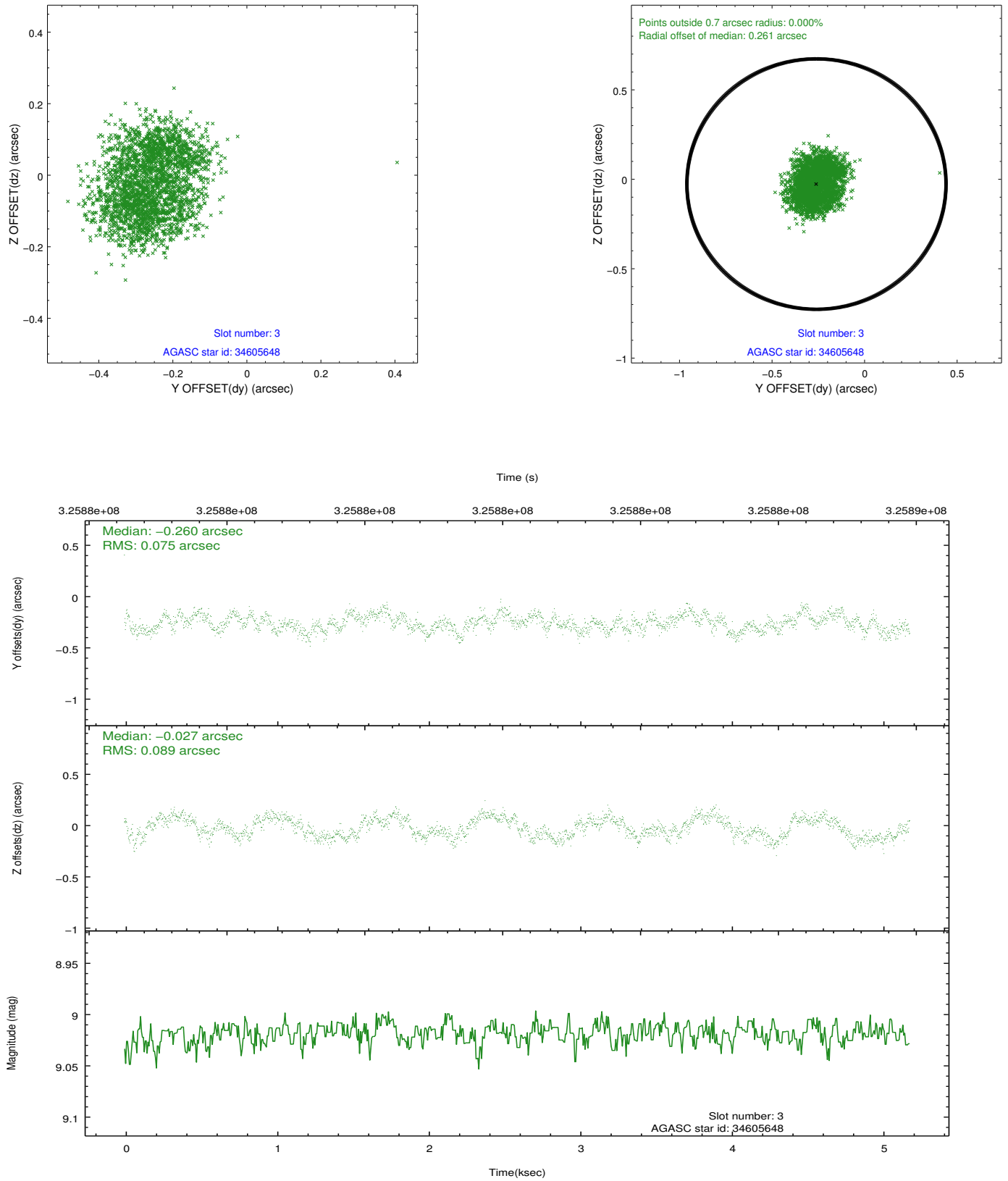


### Slot Statistics

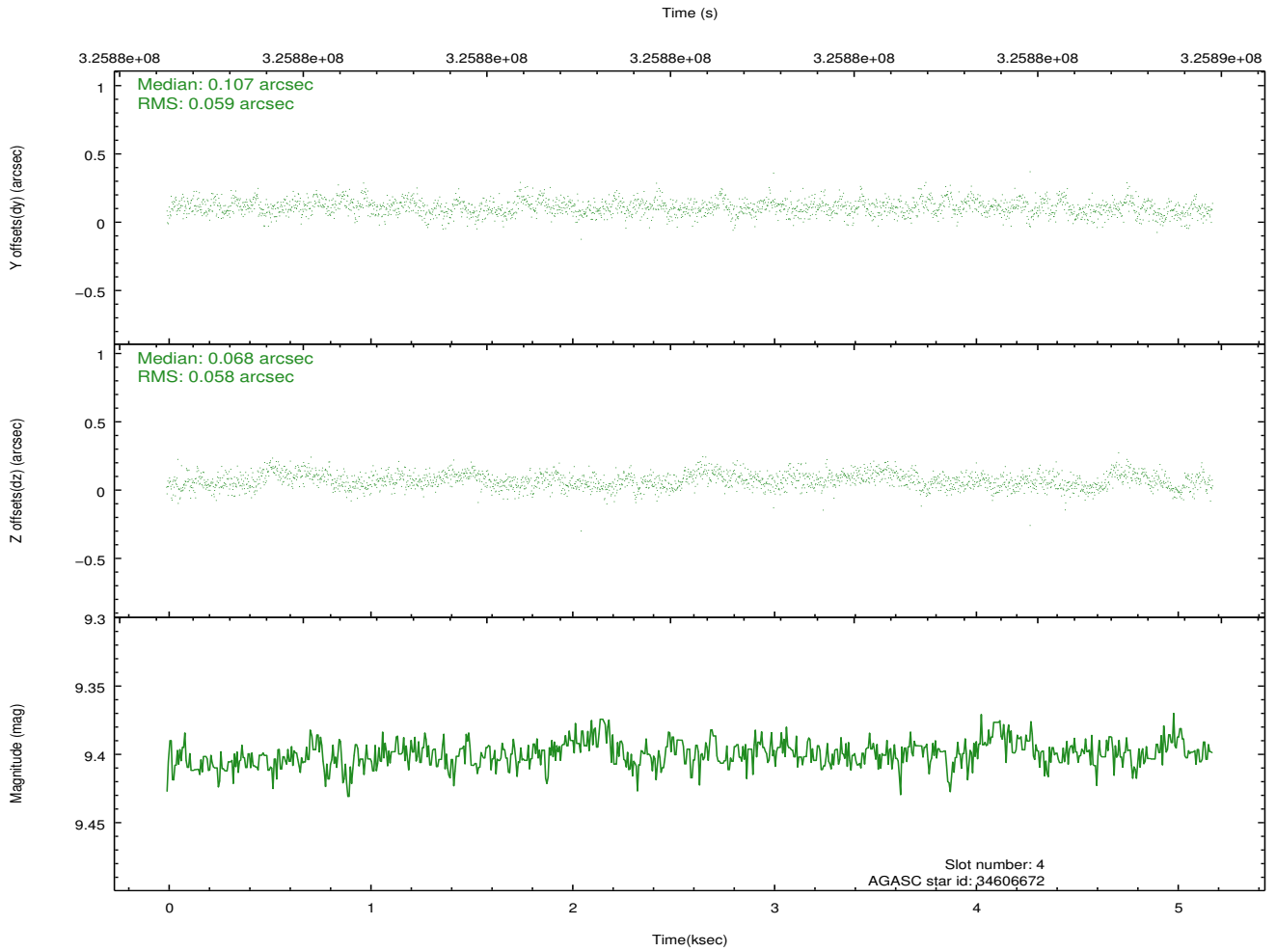
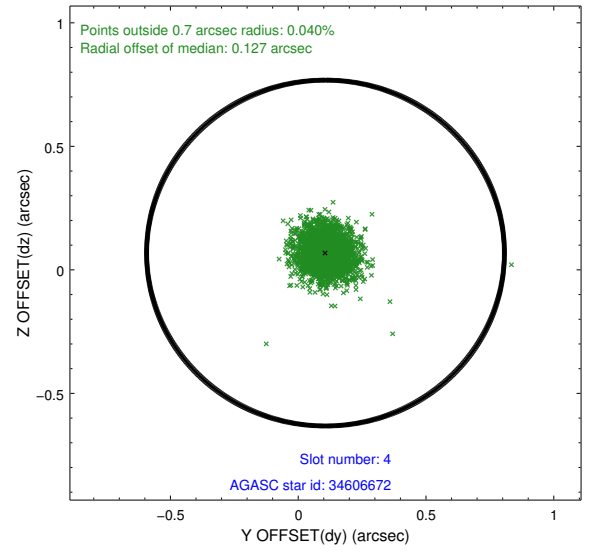
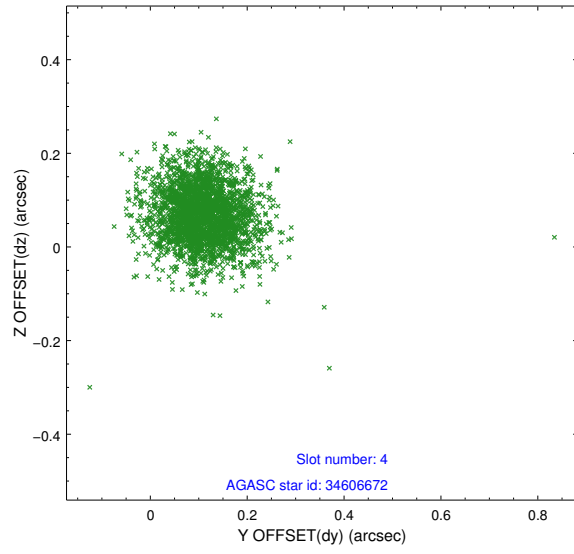
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.83	1265	-0.060	-0.011	0.008	0.012	0.000000	0.000000	-766.72	-1736.44
1	FID	ACIS-S-4	6.91	1265	0.167	0.032	0.007	0.012	0.000000	0.000000	2146.23	170.91
2	FID	ACIS-S-5	6.93	1264	-0.137	-0.012	0.006	0.010	0.000000	0.000000	-1818.16	165.81
3	GUIDE	34605648	9.02	2526	-0.260	-0.027	0.128	0.184	170.878184	0.460021	-2129.16	-2042.18
4	GUIDE	34606672	9.40	2526	0.107	0.068	0.085	0.142	171.203072	0.379171	-2151.34	-837.96
5	GUIDE	645272416	9.58	2524	-0.085	-0.036	0.135	0.212	171.477661	-0.073036	-834.98	538.72
6	GUIDE	645273280	9.50	2528	0.234	-0.103	0.119	0.197	170.503717	-0.626714	1999.07	-2331.89
7	GUIDE	645273120	8.94	2528	0.002	0.079	0.087	0.140	171.450317	-0.766842	1604.82	1089.73

## 2.4 Star Slots

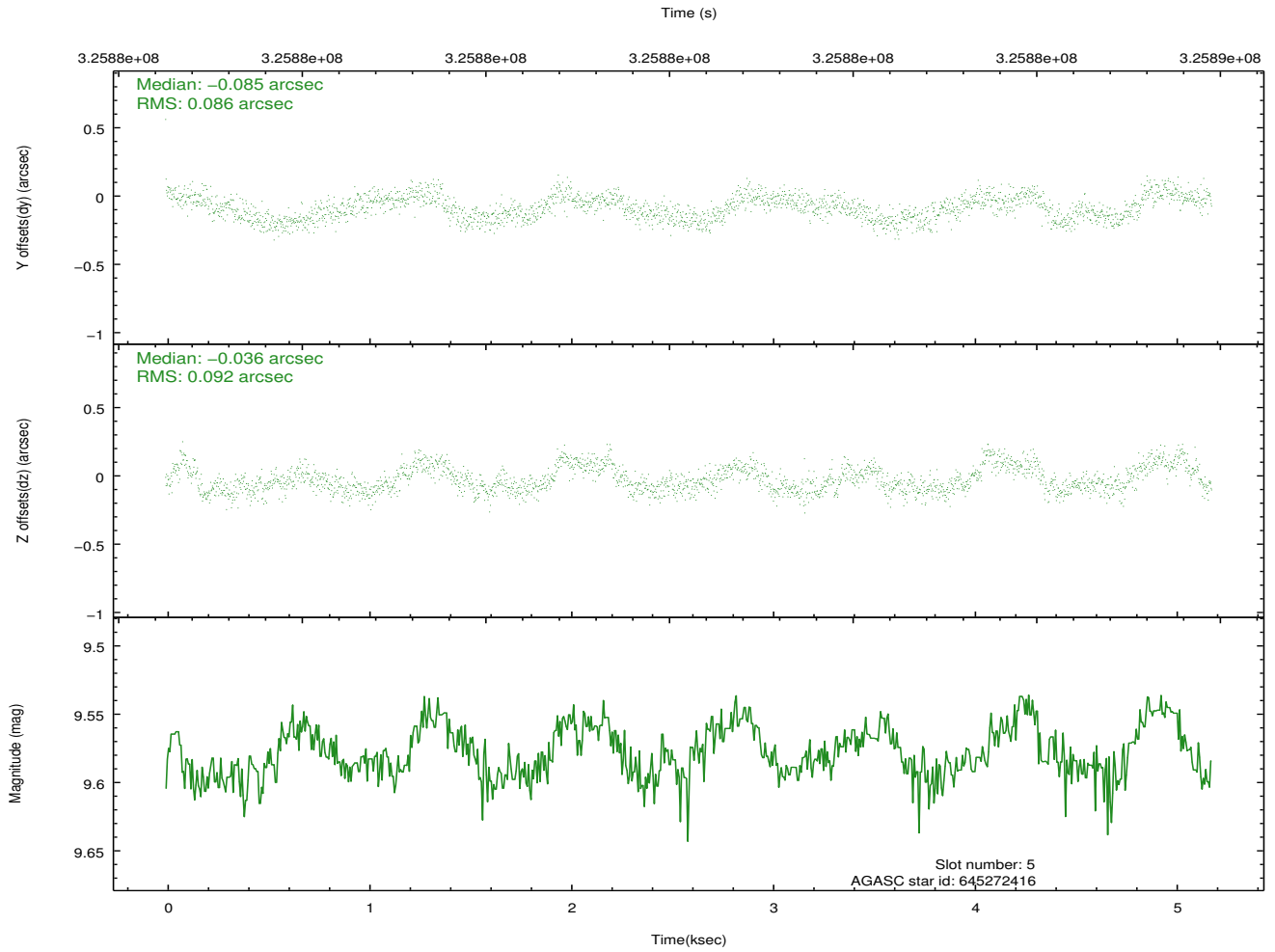
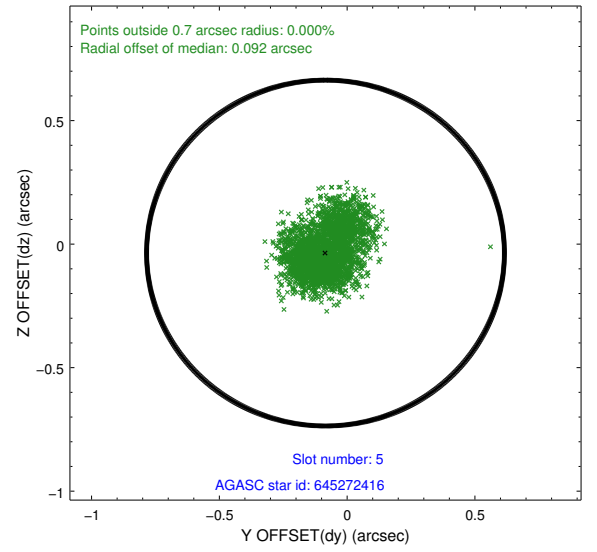
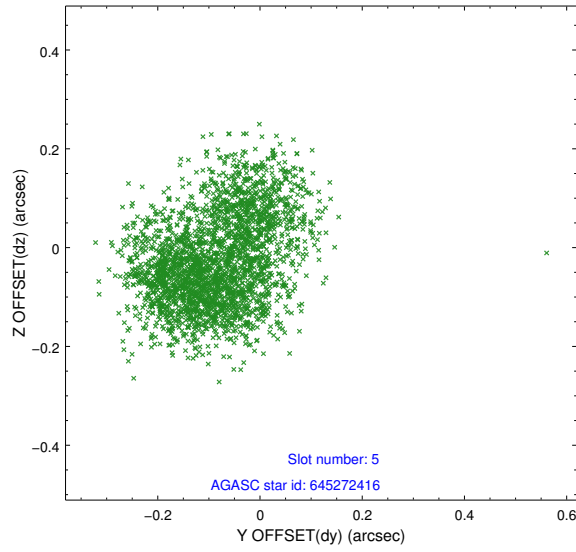
### 2.4.1 Slot 3



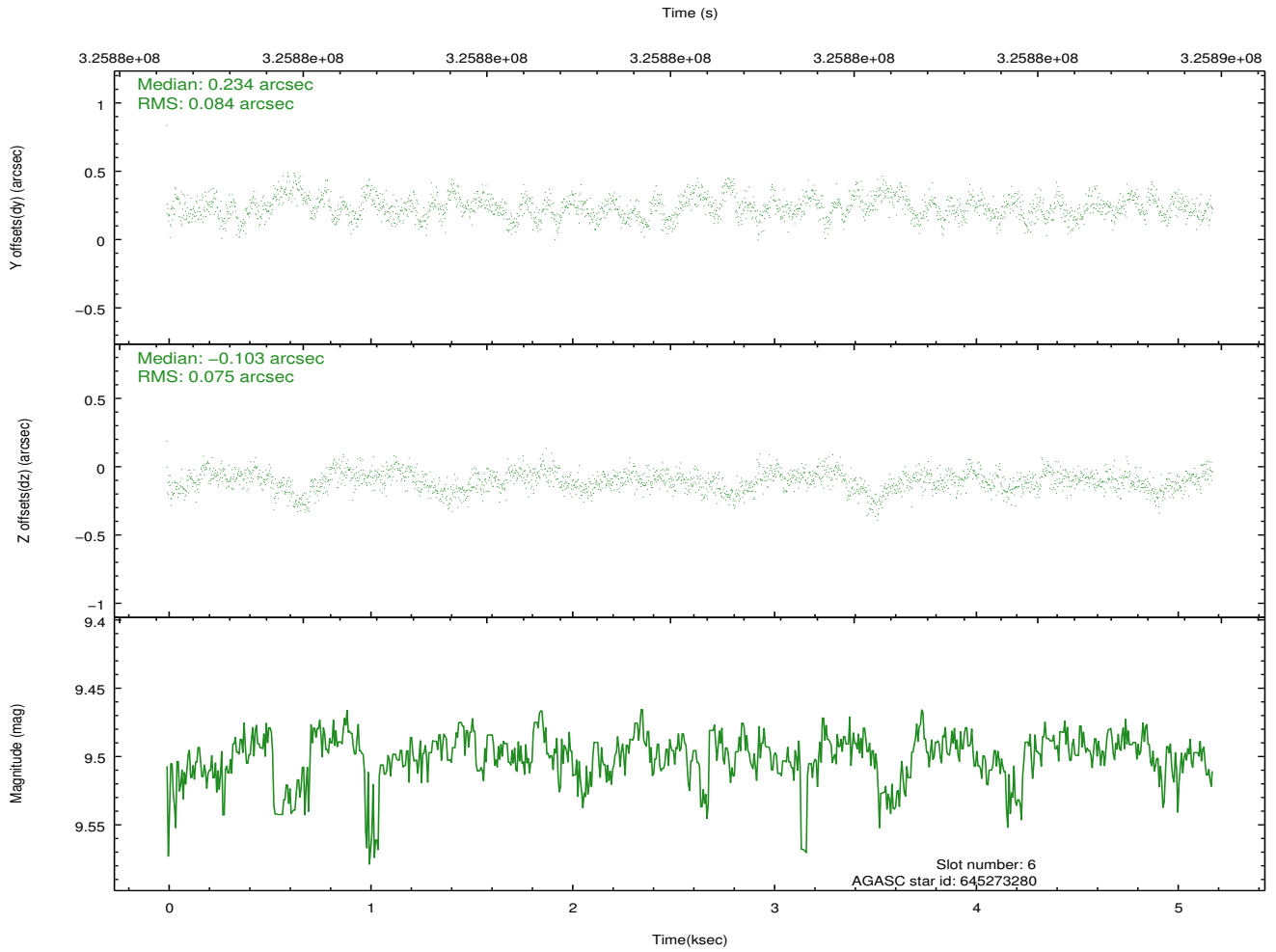
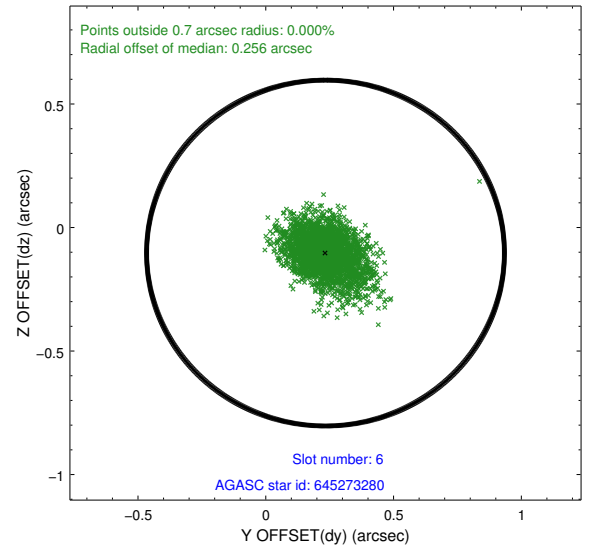
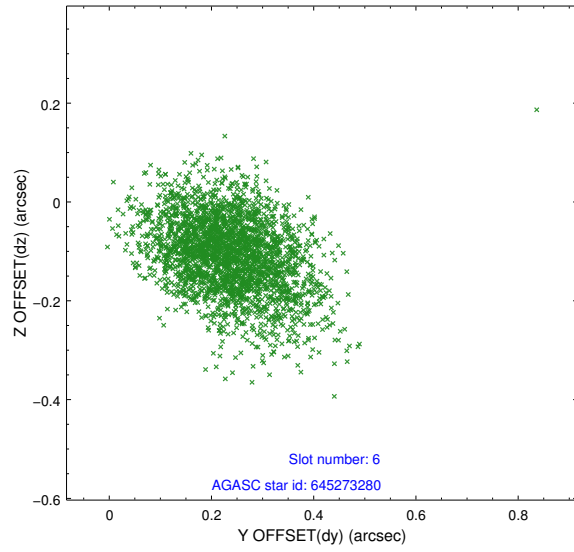
## 2.4.2 Slot 4



### 2.4.3 Slot 5

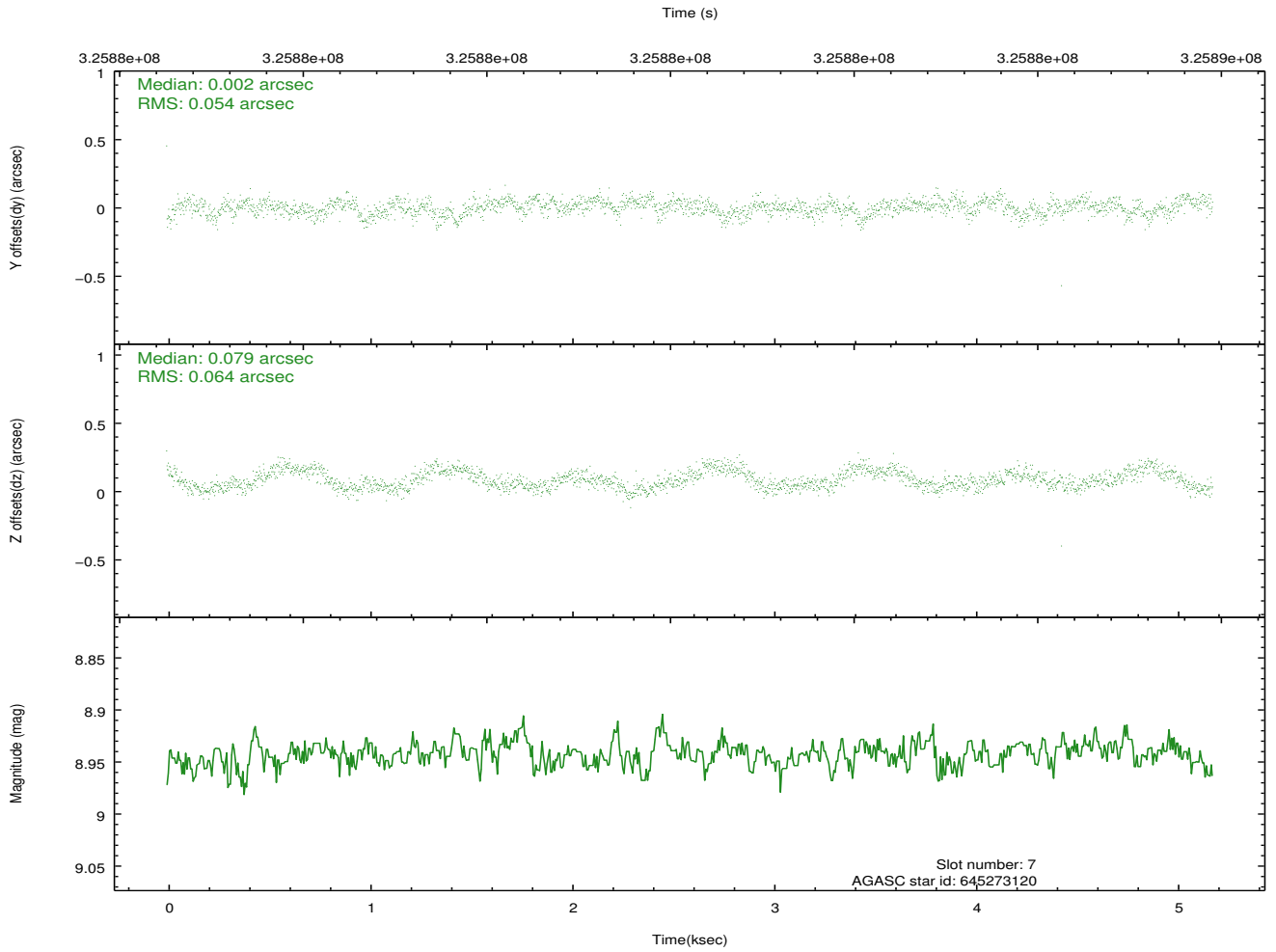
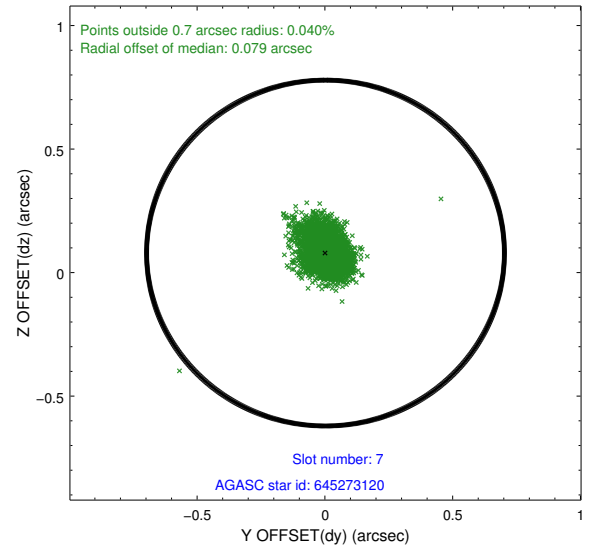
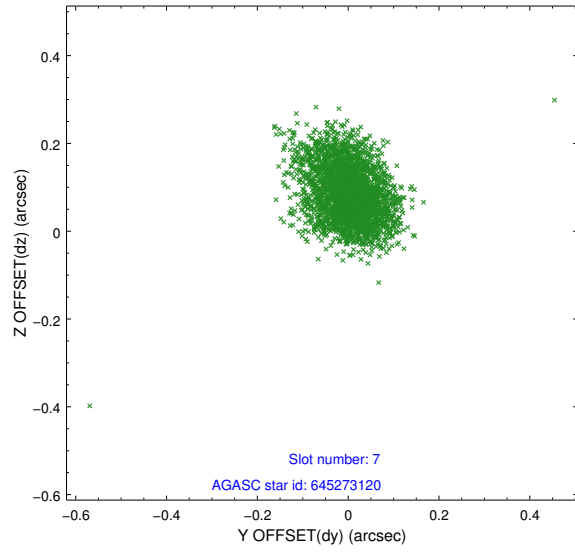


## 2.4.4 Slot 6



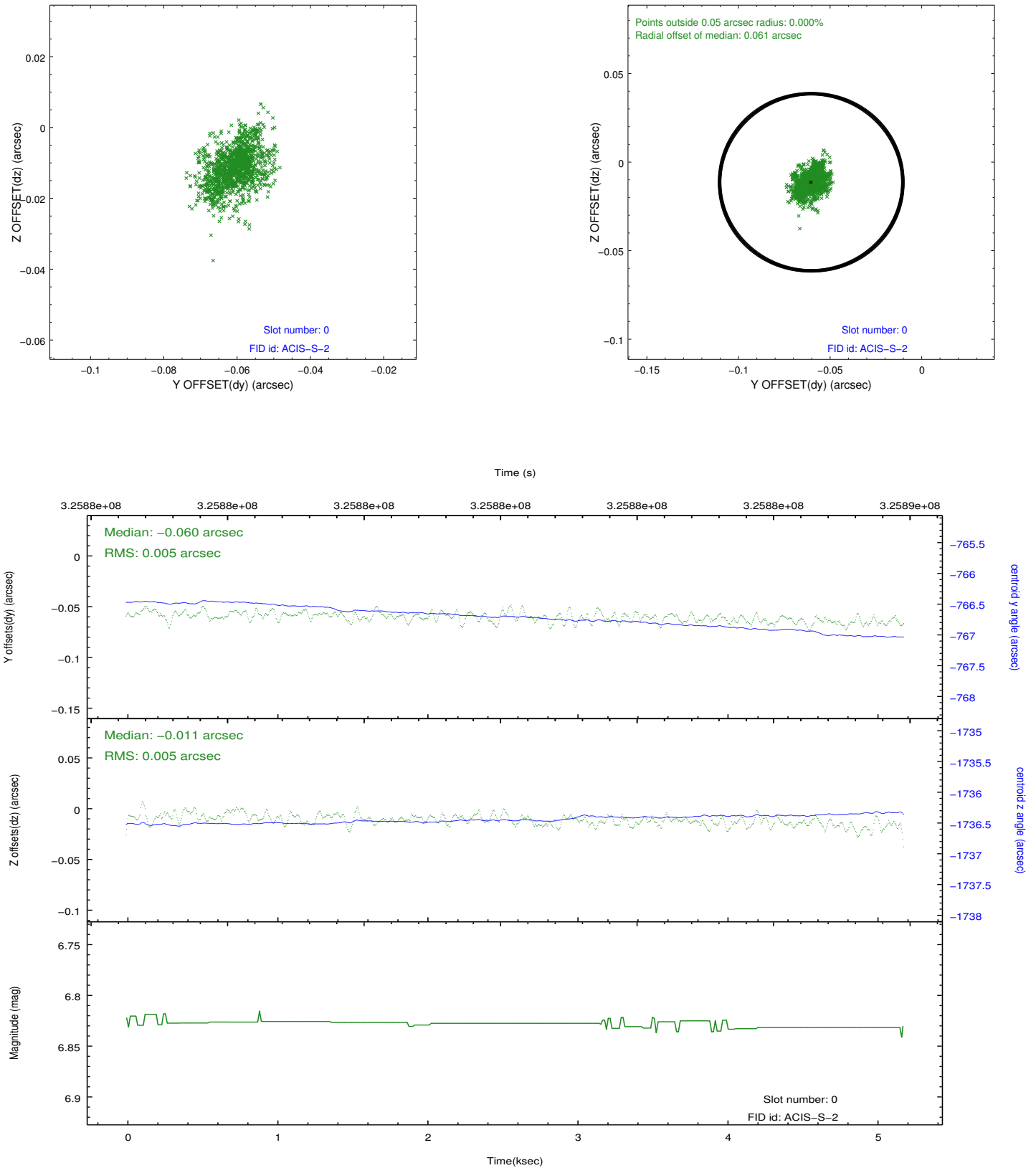


## 2.4.5 Slot 7

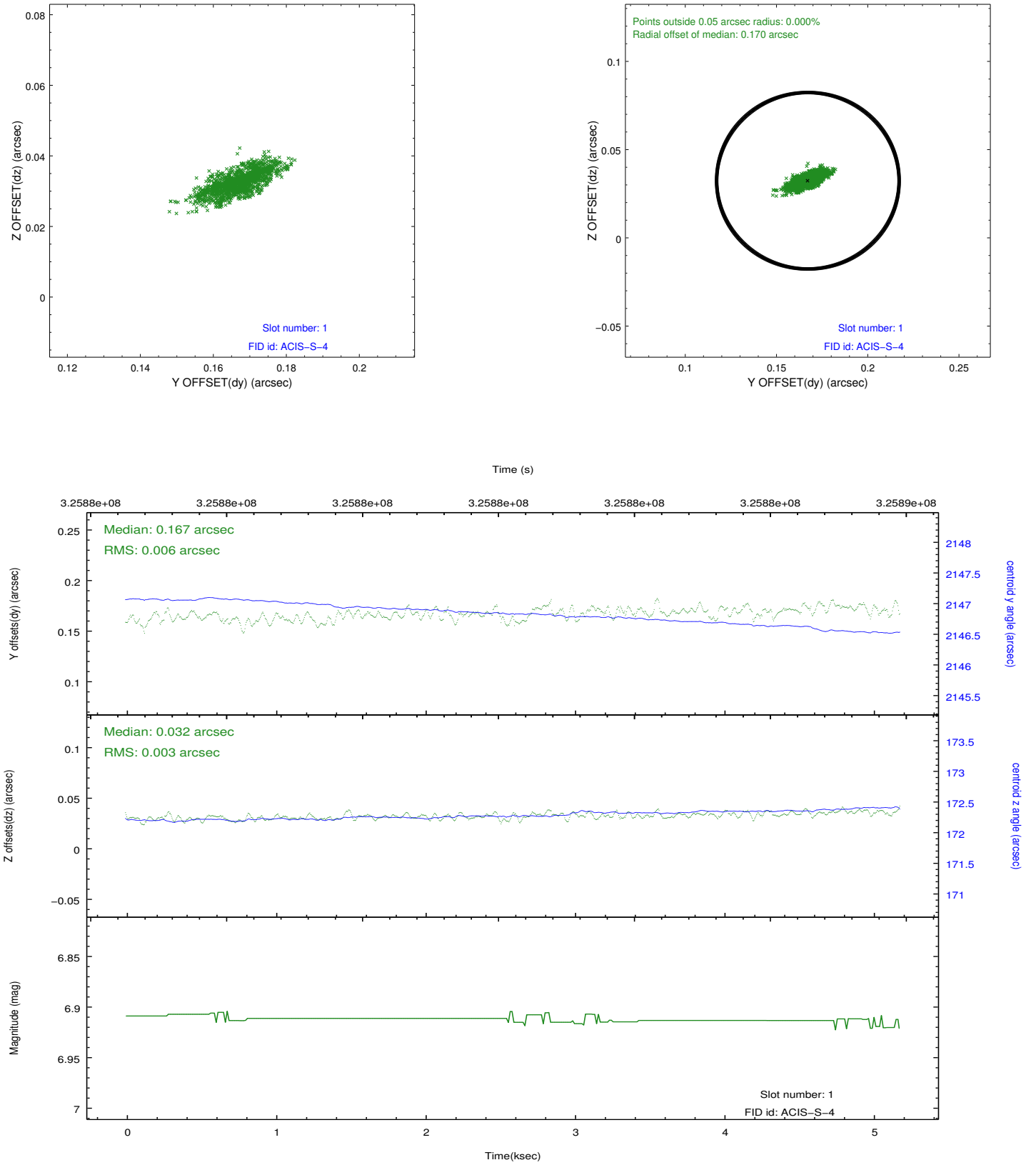


## 2.5 FID Slots

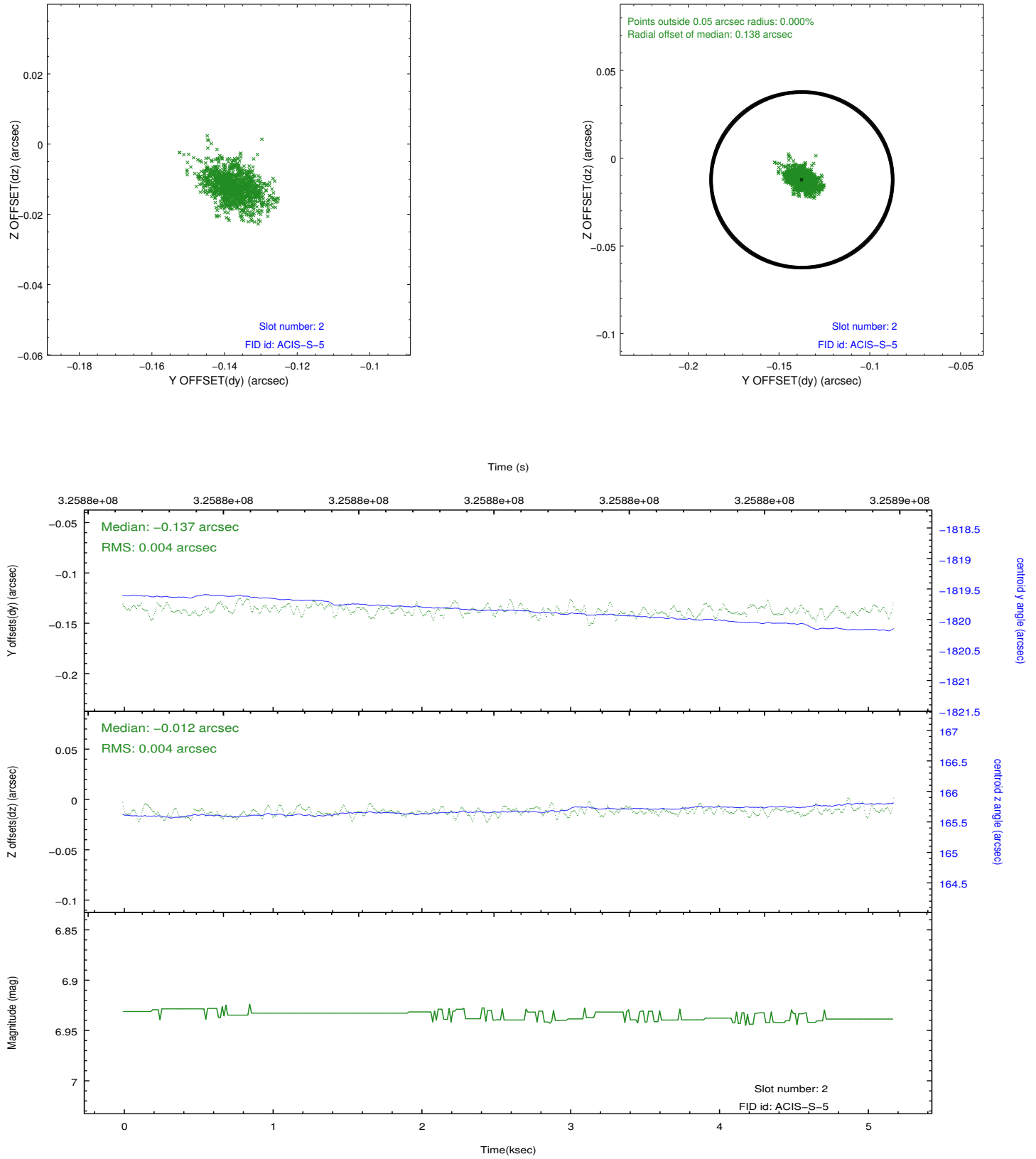
### 2.5.1 Slot 0



## 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)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17759998

### A.2 Comments