

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10098 - L2 Version 2  
Chandra X-Ray Center

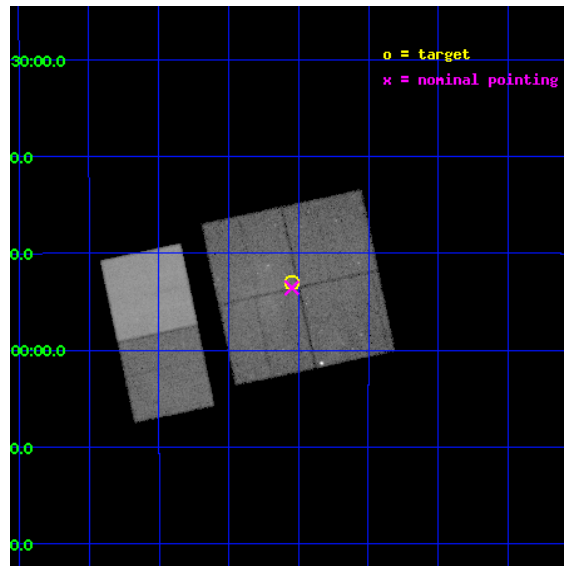
L2 Processing Date : Jun 11 2012

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# 1 Front

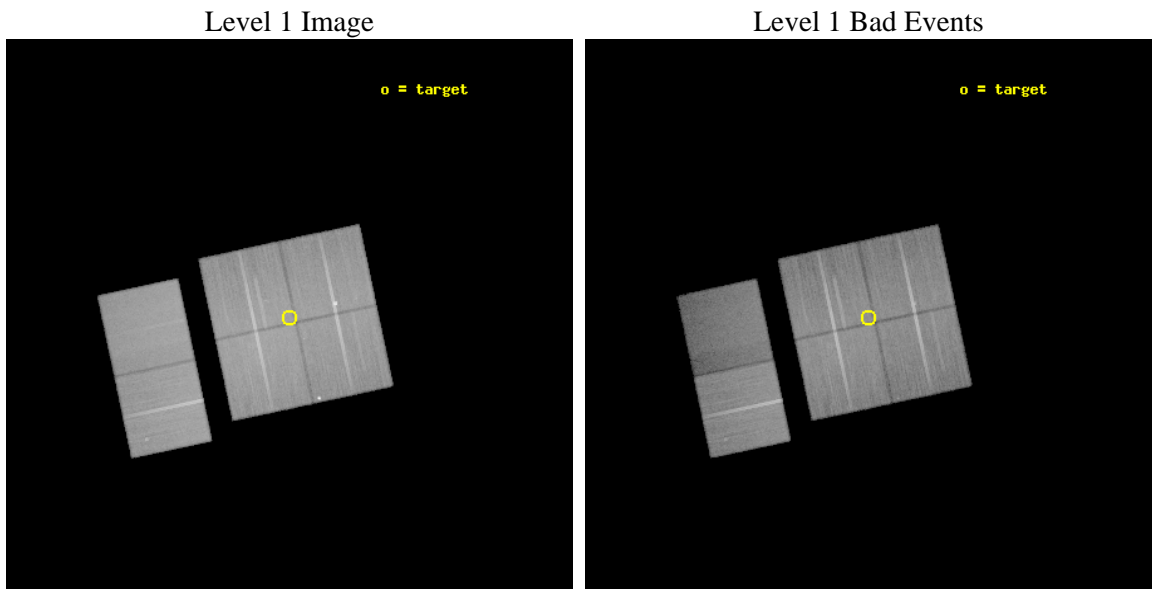
seq_num	501026	Sequence number
obs_id	10098	Observation id
title	A pulsar wind nebula in G18.95-1.1?	Proposal title
observer	Dr. Ralph Tuellmann	Principal investigator
object	G18.95-1.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.26125	Observer's specified target RA [deg]
dec_targ	-12.88475	Observer's specified target Dec [deg]
ra_nom	277.26200048382	Nominal RA [deg]
dec_nom	-12.89279472022	Nominal Dec [deg]
roll_nom	257.96429285193	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45036.758792043	Sum of GTIs [s]
livetime	44466.476234337	Livetime [s]
ontime0	45036.758821845	Sum of GTIs [s]
ontime1	45033.517781258	Sum of GTIs [s]
ontime2	45033.517771721	Sum of GTIs [s]
ontime3	45036.758792043	Sum of GTIs [s]
ontime6	45039.999832273	Sum of GTIs [s]
ontime7	45039.999832273	Sum of GTIs [s]
l2events	398213	Number of level 2 events



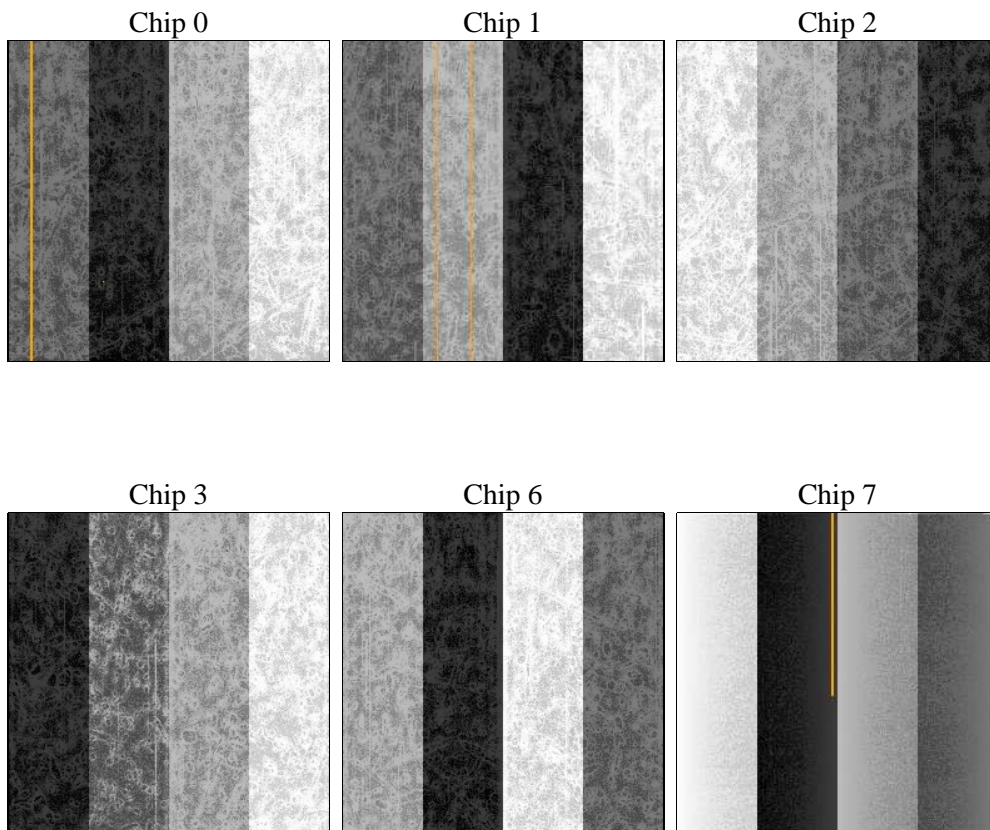
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	45036.758792043	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	45036.758821845	Sum of GTIs [s]
date	2012-06-11T15:15:53	Date and time of file creation	ontime1	45033.517781258	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	45033.517771721	Sum of GTIs [s]
			ontime3	45036.758792043	Sum of GTIs [s]
			ontime6	45039.999832273	Sum of GTIs [s]
			ontime7	45039.999832273	Sum of GTIs [s]
			l1events	2290910	Number of level 1 events

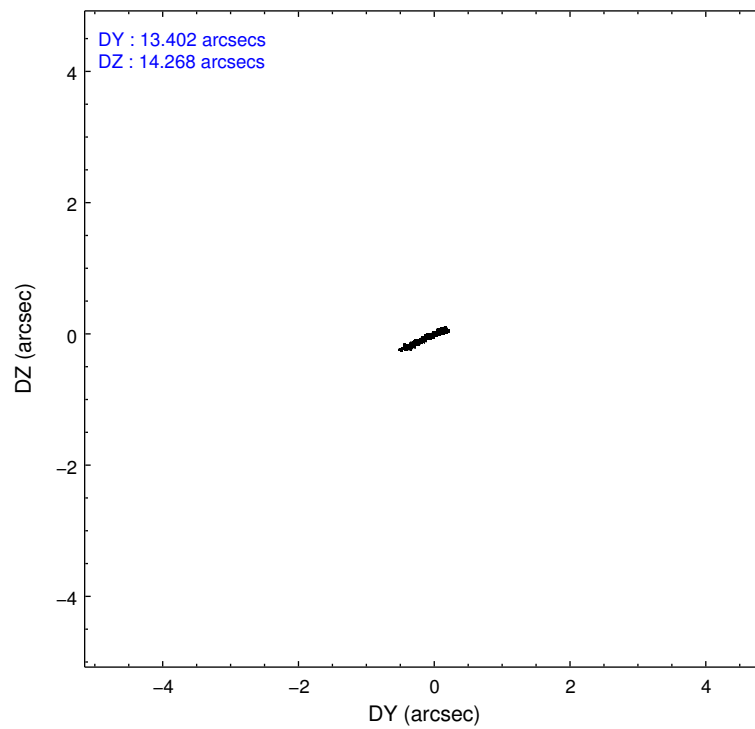
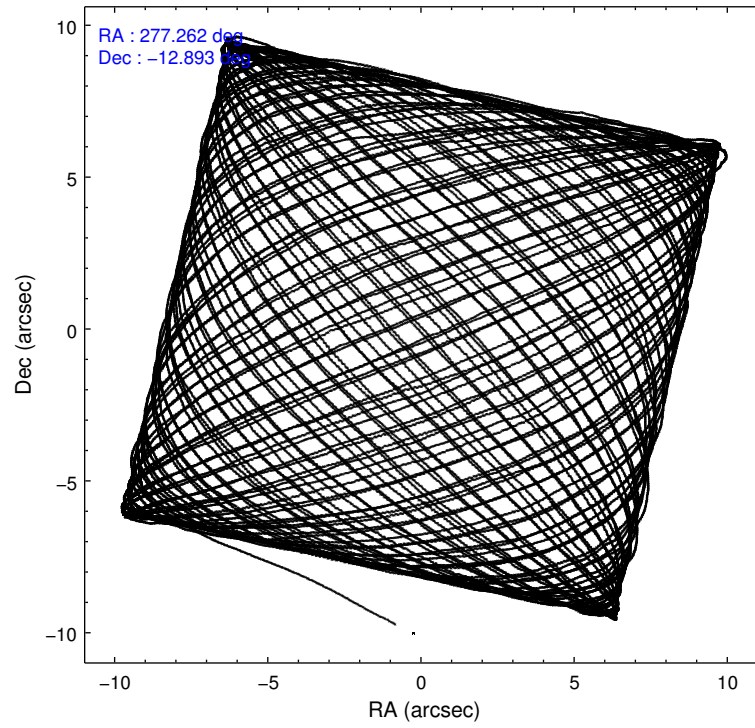
### 2.1.4 Events

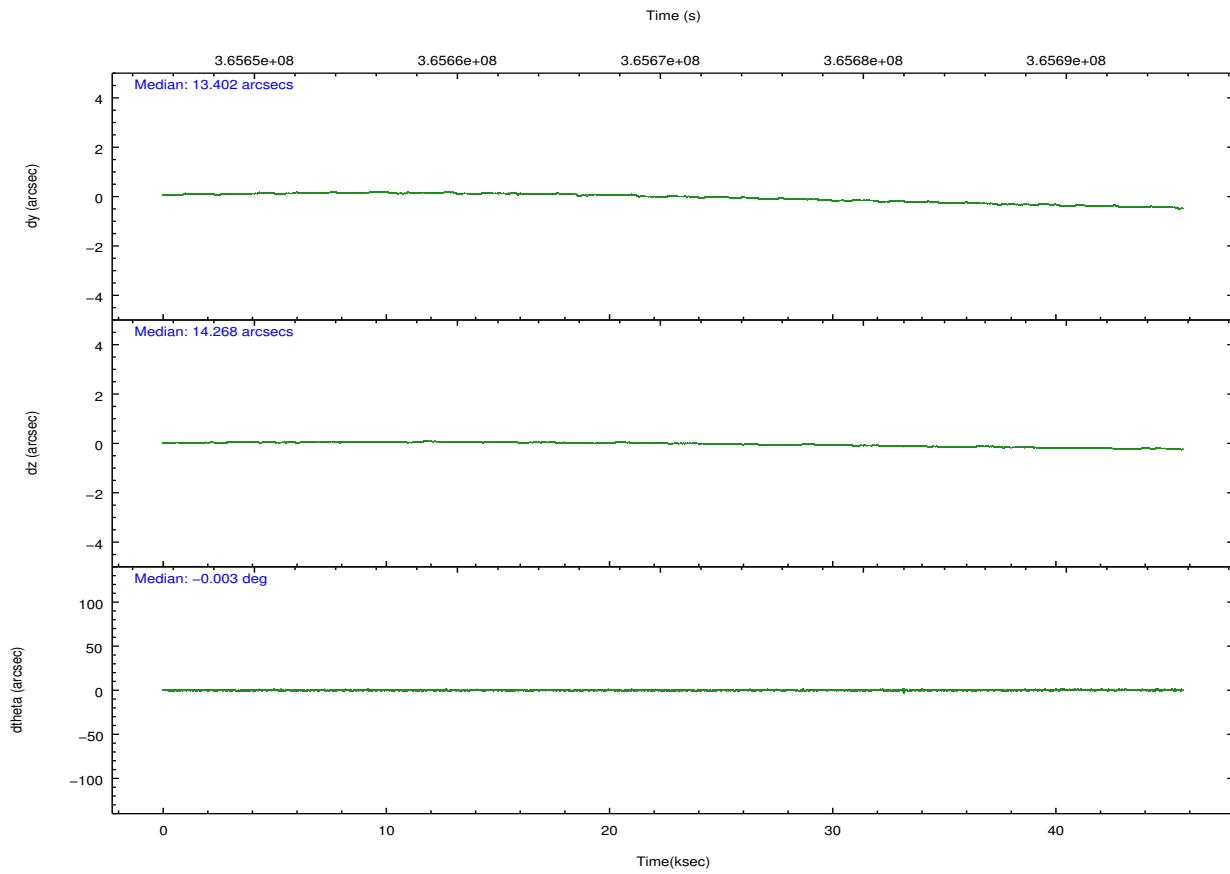
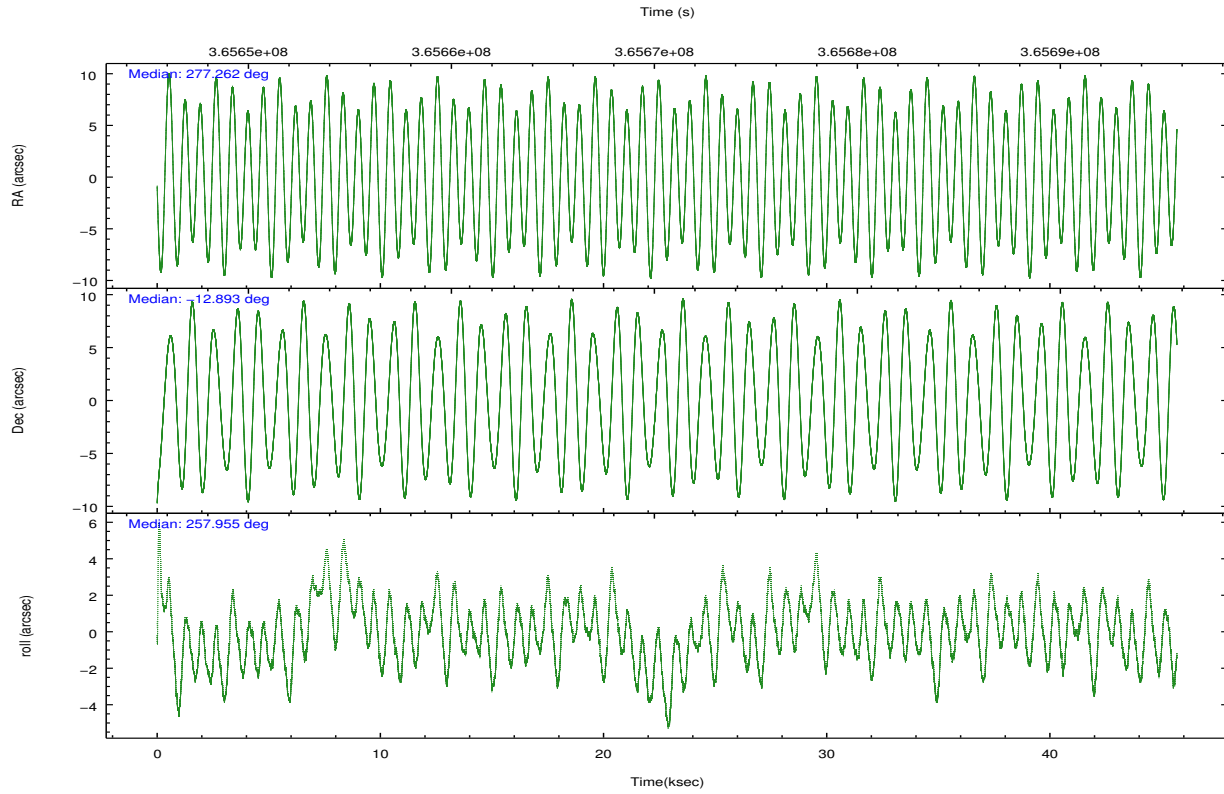
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	361081	361391	413978	376013	402758	375689	grade 0 events	24862	19570	26968	23629	26613	21535
rejected events	310399	309709	362125	328245	349070	184495		6%	5%	6%	6%	6%	5%
rejected %	85%	85%	87%	87%	86%	49%	grade 1 events	298	194	336	286	268	636
								0%	0%	0%	0%	0%	0%
							grade 2 events	10409	15061	10075	8796	10354	42152
								2%	4%	2%	2%	2%	11%
							grade 3 events	4383	4507	4111	4224	4326	17952
								1%	1%	0%	1%	1%	4%
							grade 4 events	4086	4414	4224	4216	4399	17727
								1%	1%	1%	1%	1%	4%
							grade 5 events	11353	12641	10545	13184	13373	38675
								3%	3%	2%	3%	3%	10%
							grade 6 events	6944	8135	6482	6904	7998	91843
								1%	2%	1%	1%	1%	24%
							grade 7 events	298746	296869	351237	314774	335427	145169
								82%	82%	84%	83%	83%	38%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	277.253205	277.2620004838237	CCD I2 on	Y	Y
[deg] Pointing Dec	-12.866673	-12.89279472021957	CCD I3 on	Y	Y
[deg] Pointing Roll	257.753649	257.9642928519295	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	365648468.184000	365647205.36798	CCD S5 on	N	N
Observation start date	2009-08-03T01:00:02	2009-08-03T00:40:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	365693468.184000	365693942.80782	On-chip summing requested	N	N
Observation end date	2009-08-03T13:30:02	2009-08-03T13:39:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





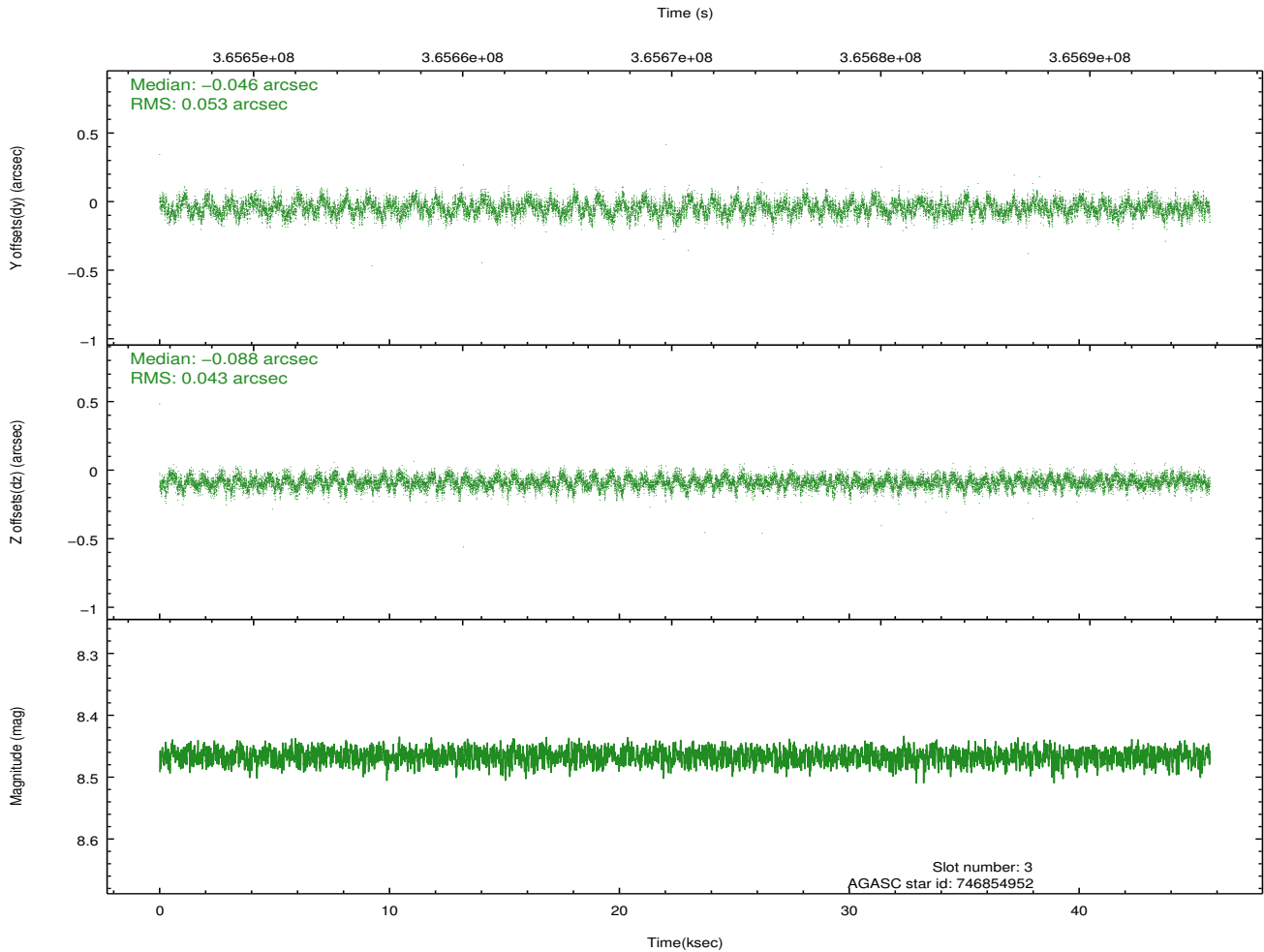
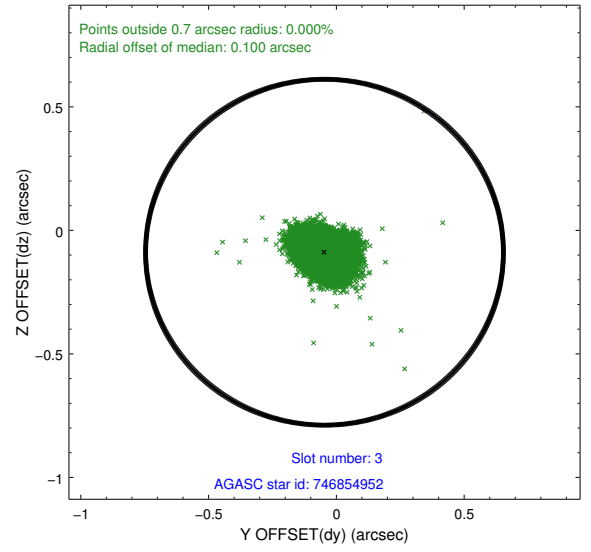
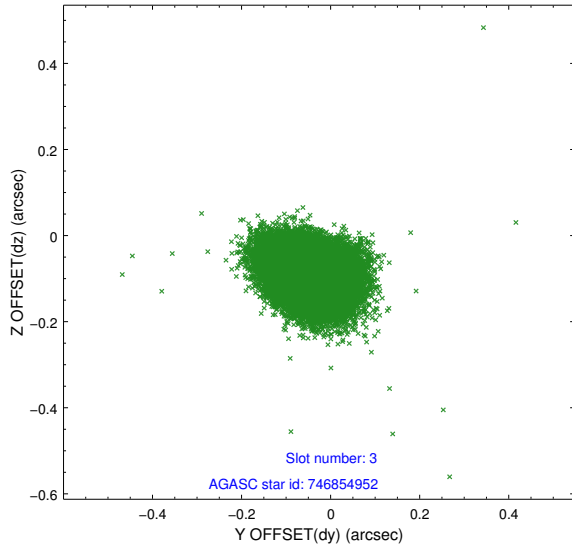
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	11145	0.039	0.003	0.010	0.018	0.000000	0.000000	926.21	-837.79
1	FID	ACIS-I-5	7.09	11143	-0.220	0.044	0.011	0.020	0.000000	0.000000	-1822.19	1059.69
2	FID	ACIS-I-6	7.09	11145	0.089	0.023	0.010	0.017	0.000000	0.000000	391.77	1704.21
3	GUIDE	746854952	8.47	22284	-0.046	-0.088	0.072	0.116	276.590453	-12.990635	932.81	-2176.20
4	GUIDE	747028080	8.70	22275	0.061	0.013	0.074	0.116	277.862767	-12.591819	-1418.91	1883.55
5	GUIDE	747388944	7.67	22283	-0.042	0.161	0.073	0.118	276.577312	-13.360850	2244.36	-1934.54
6	GUIDE	746892056	9.38	22259	-0.020	-0.050	0.104	0.181	277.655456	-13.119728	592.32	1572.04
7	GUIDE	746879776	9.46	22176	0.051	-0.051	0.165	0.276	277.480059	-12.389434	-1847.55	415.29

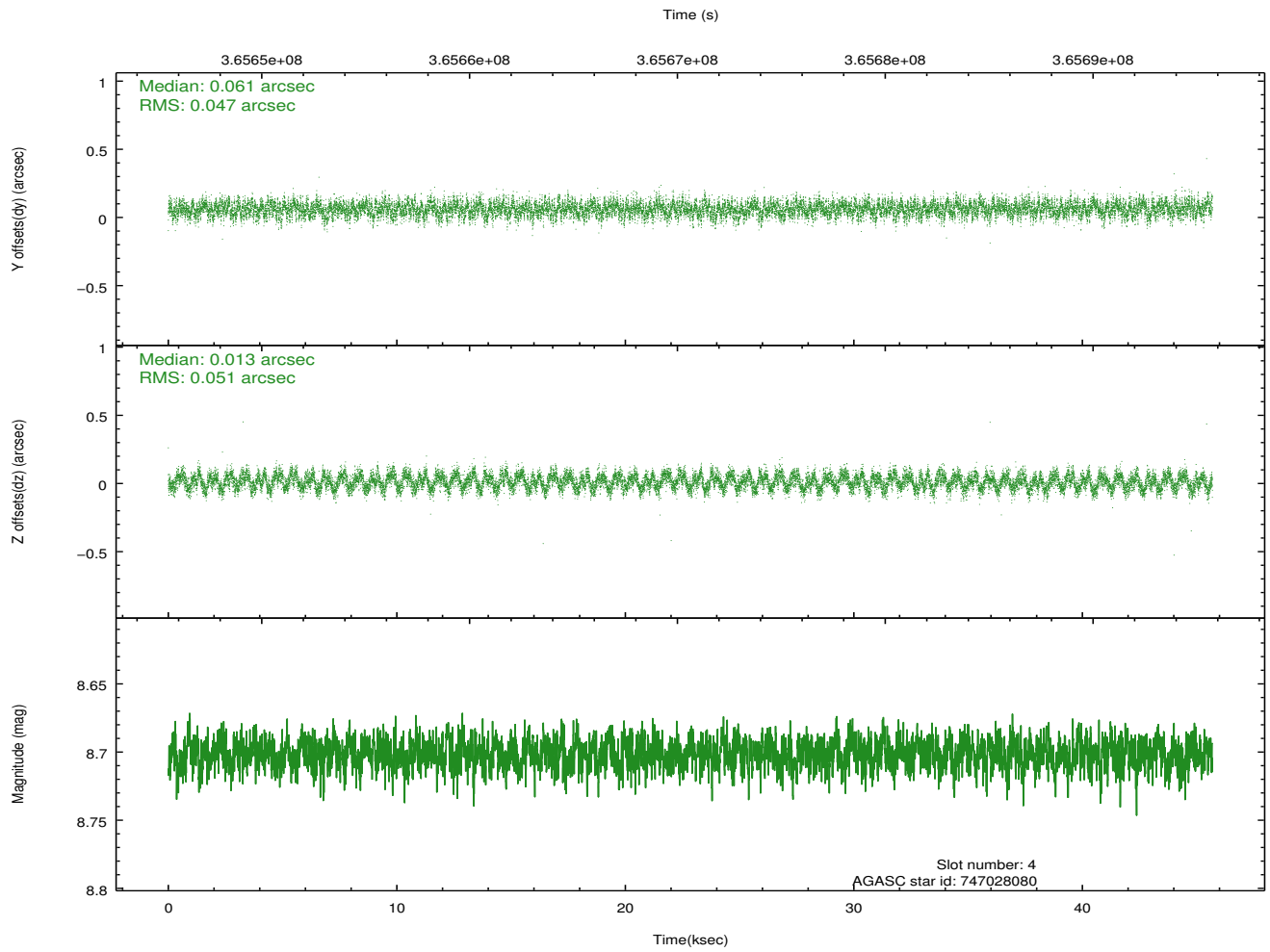
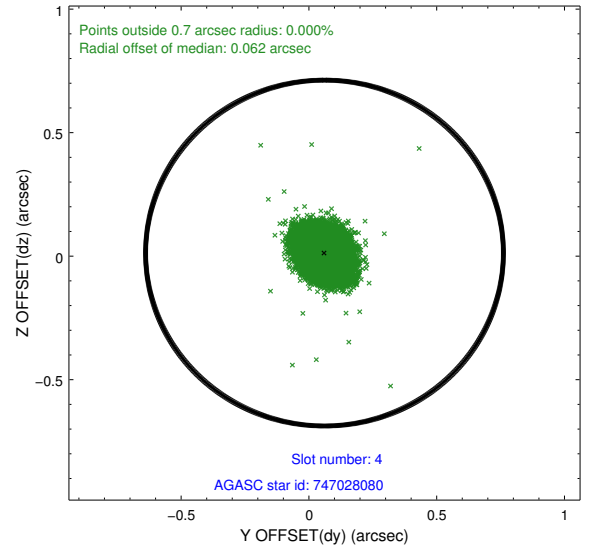
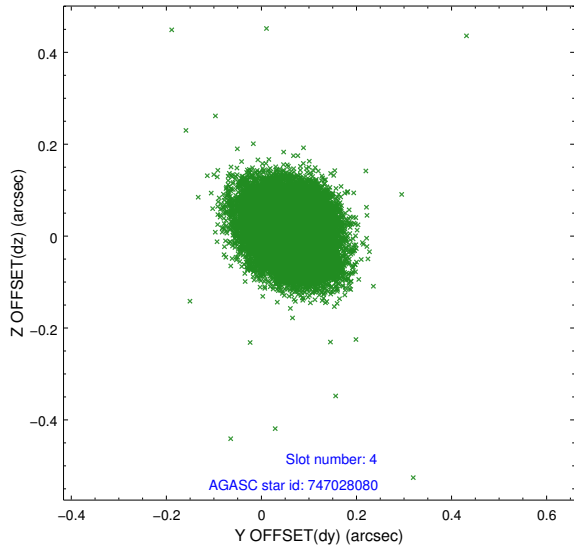
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## 2.4 Star Slots

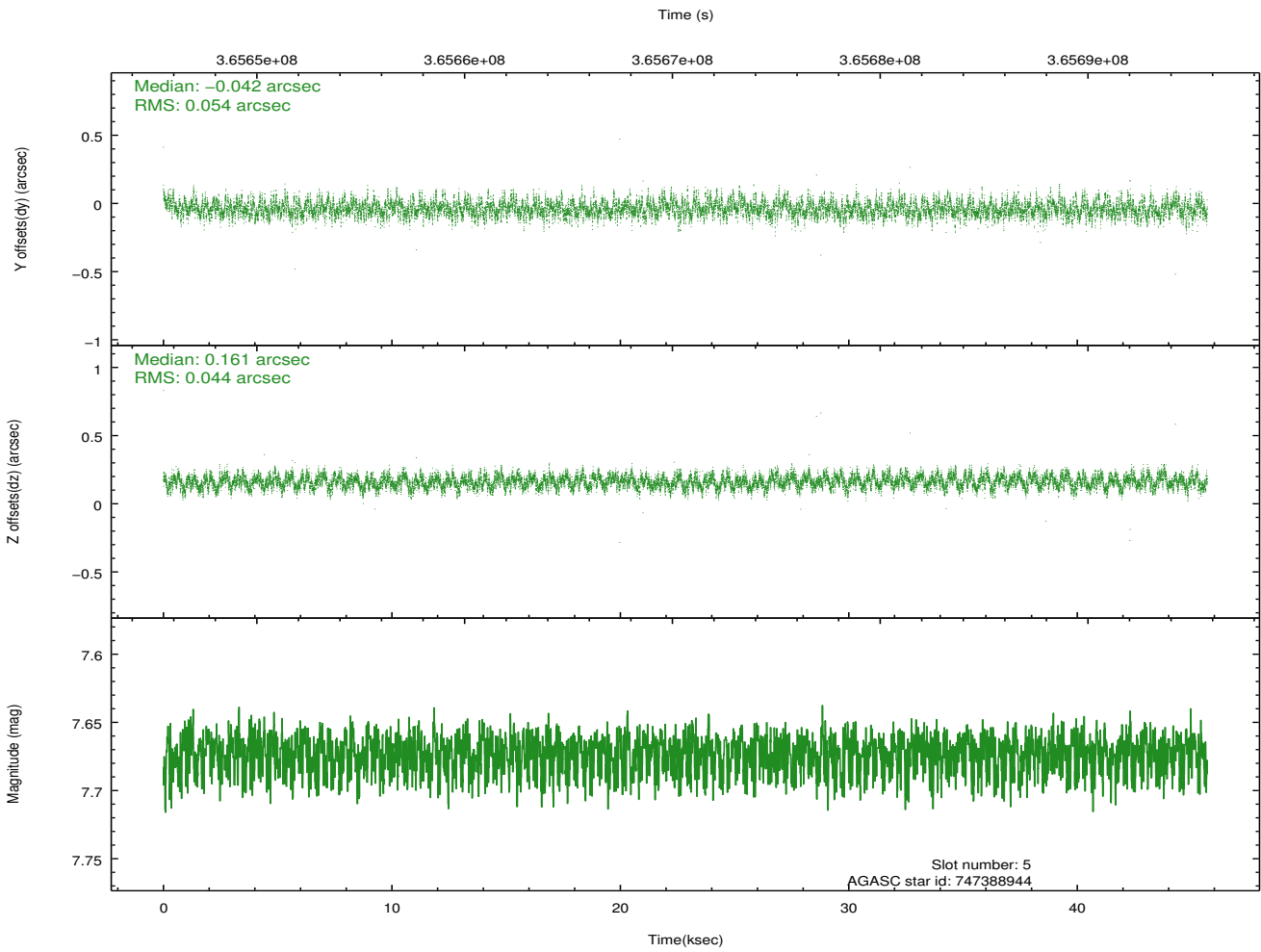
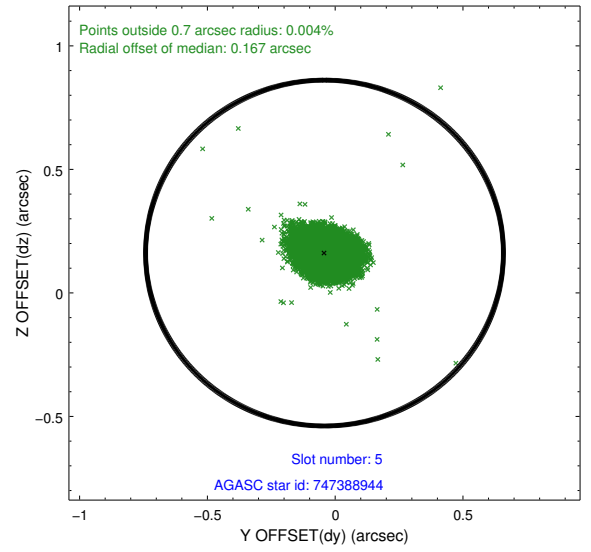
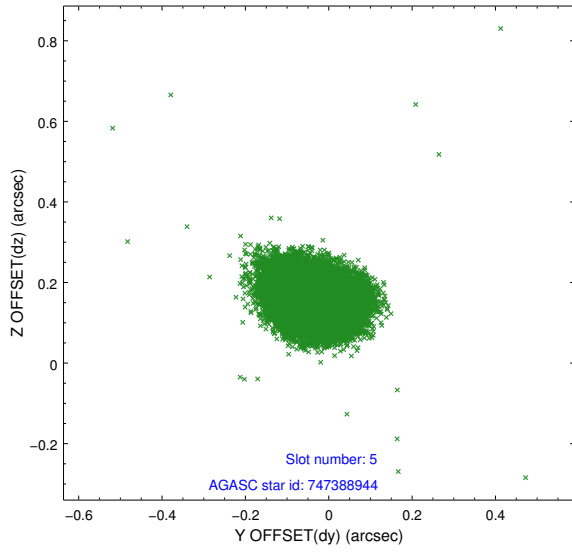
### 2.4.1 Slot 3



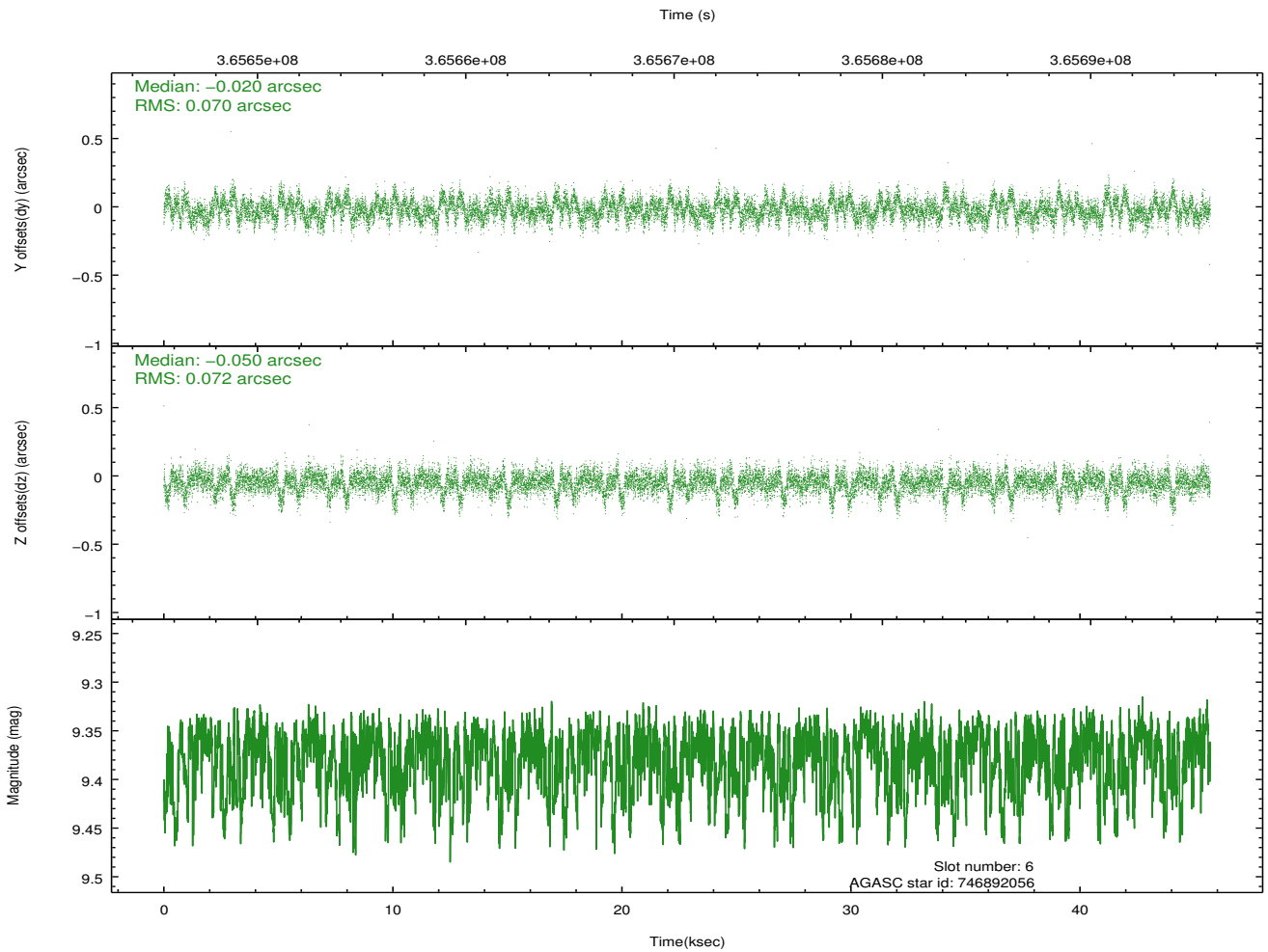
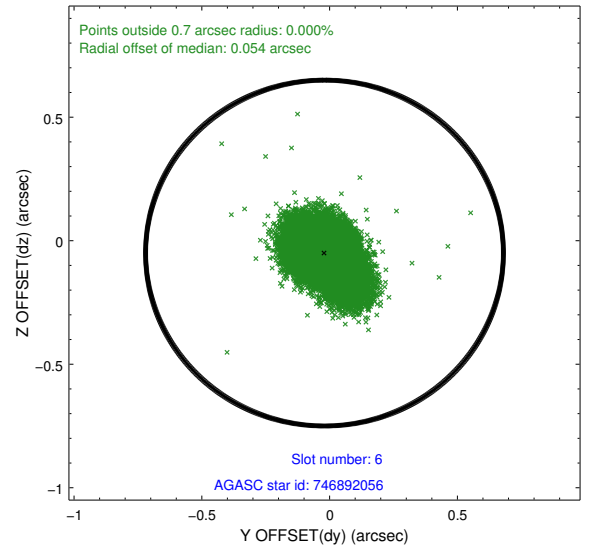
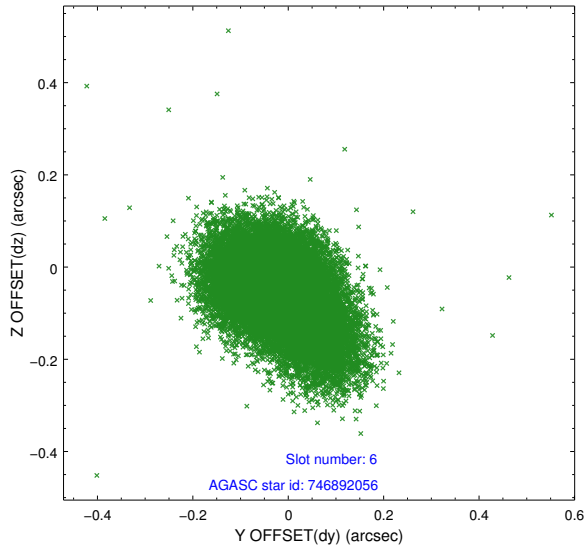
### 2.4.2 Slot 4



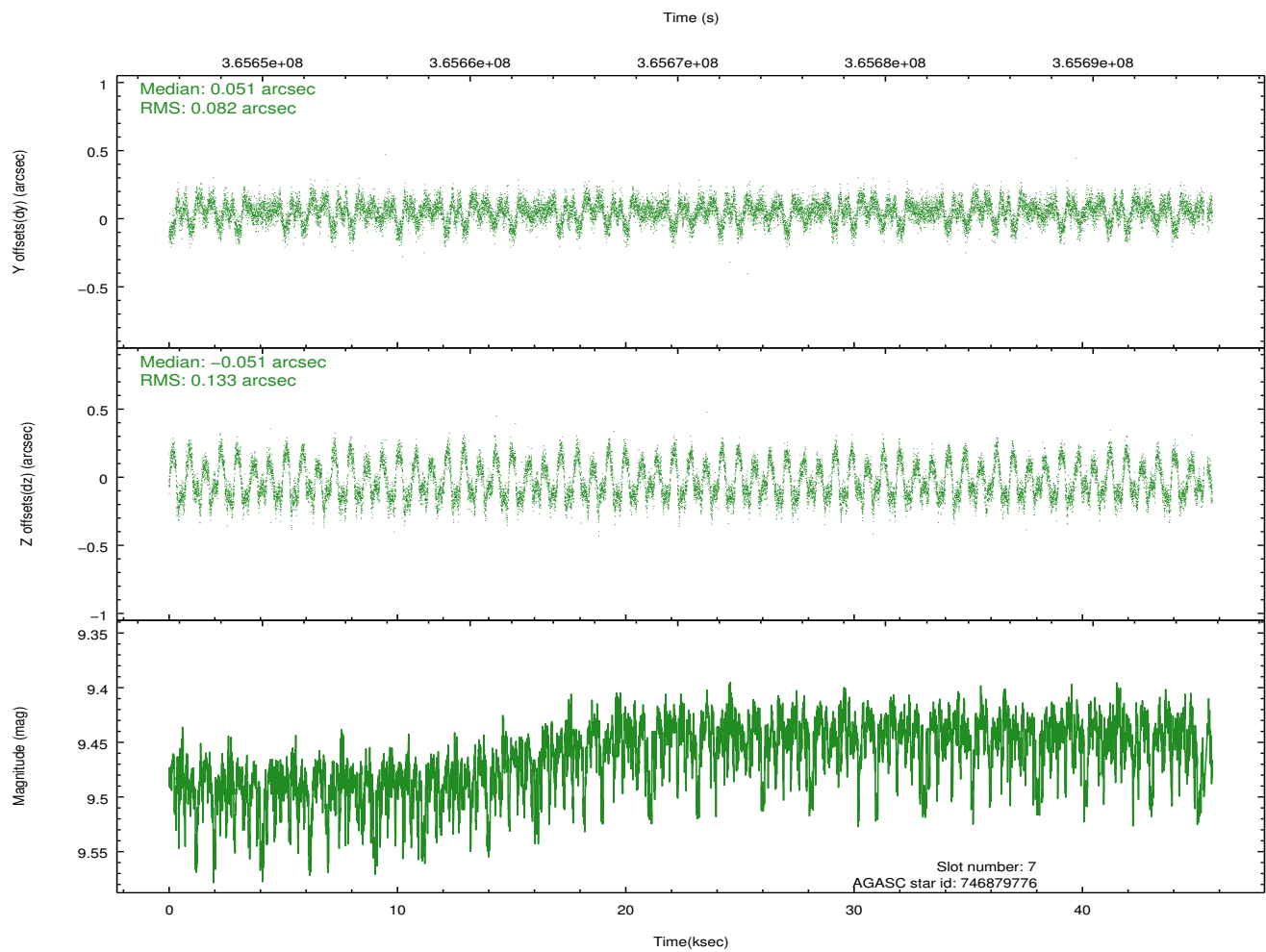
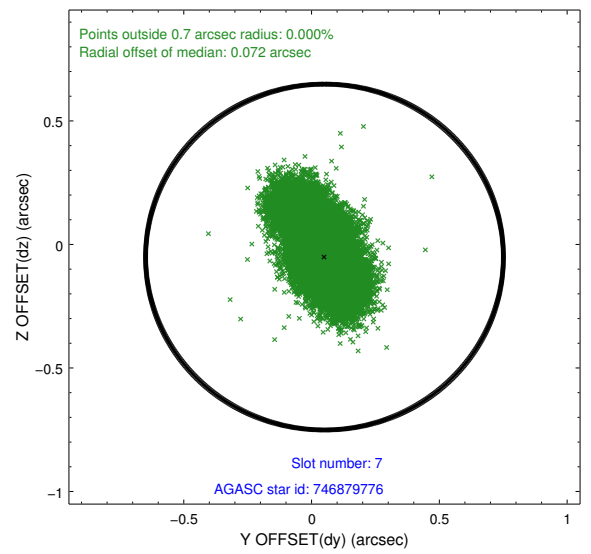
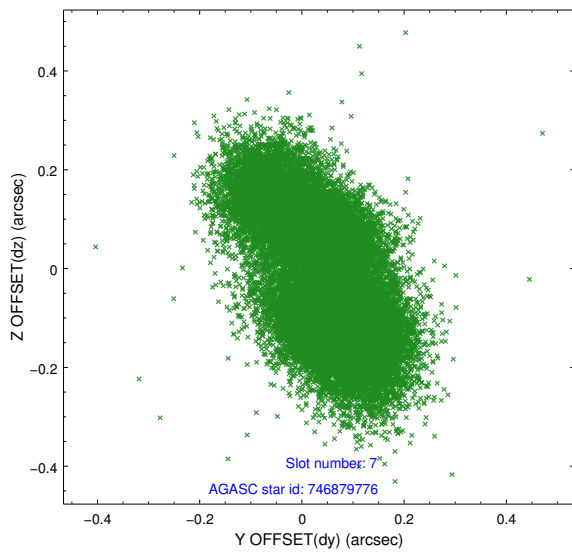
### 2.4.3 Slot 5



### 2.4.4 Slot 6

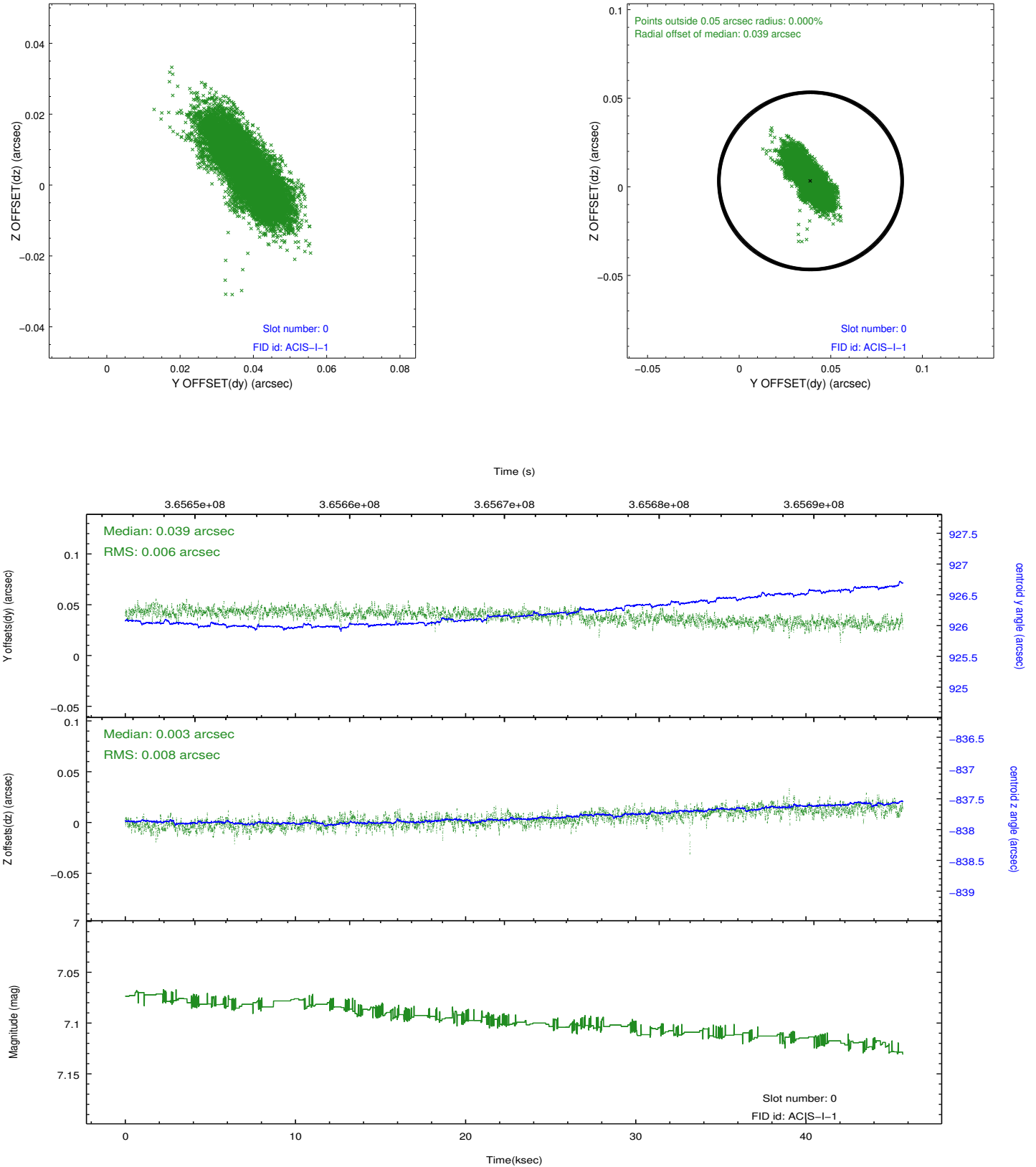


### 2.4.5 Slot 7

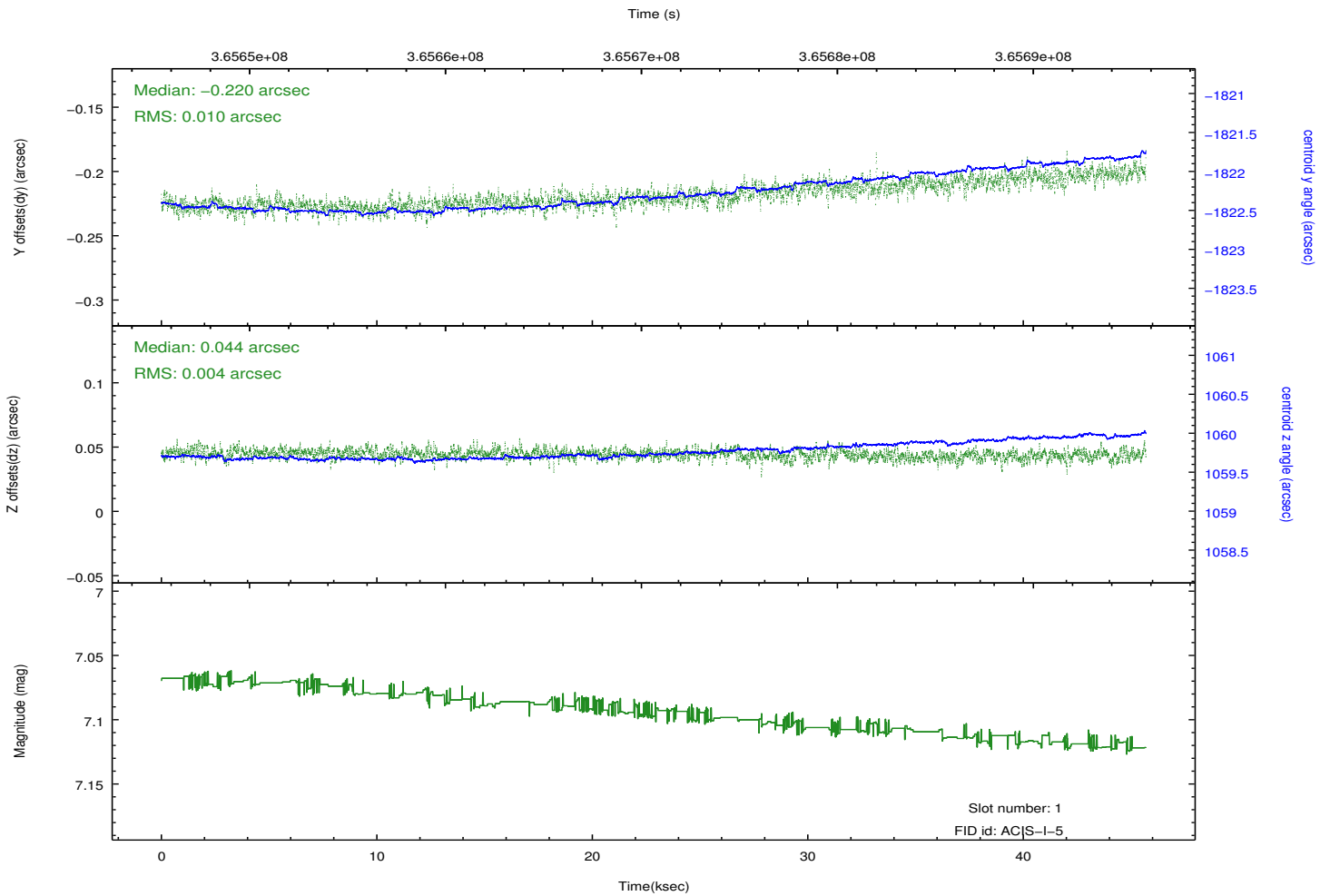
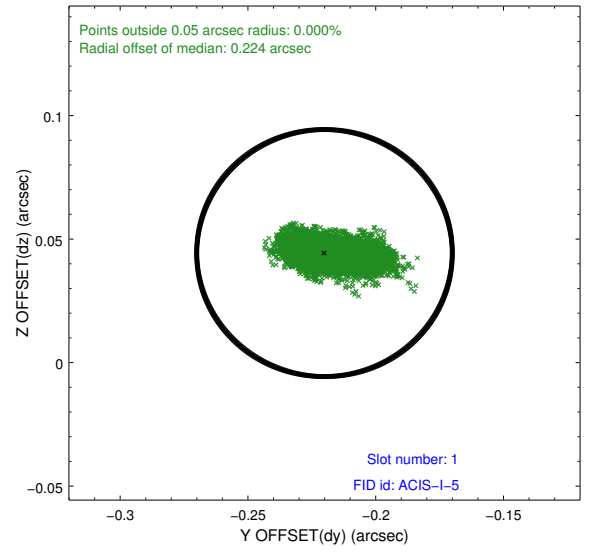
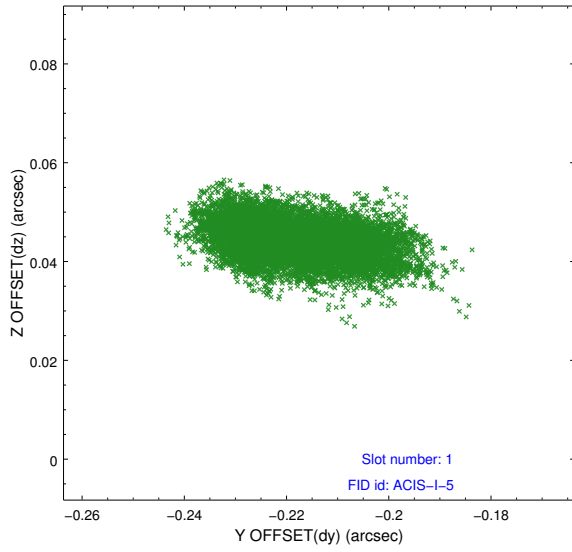


## 2.5 FID Slots

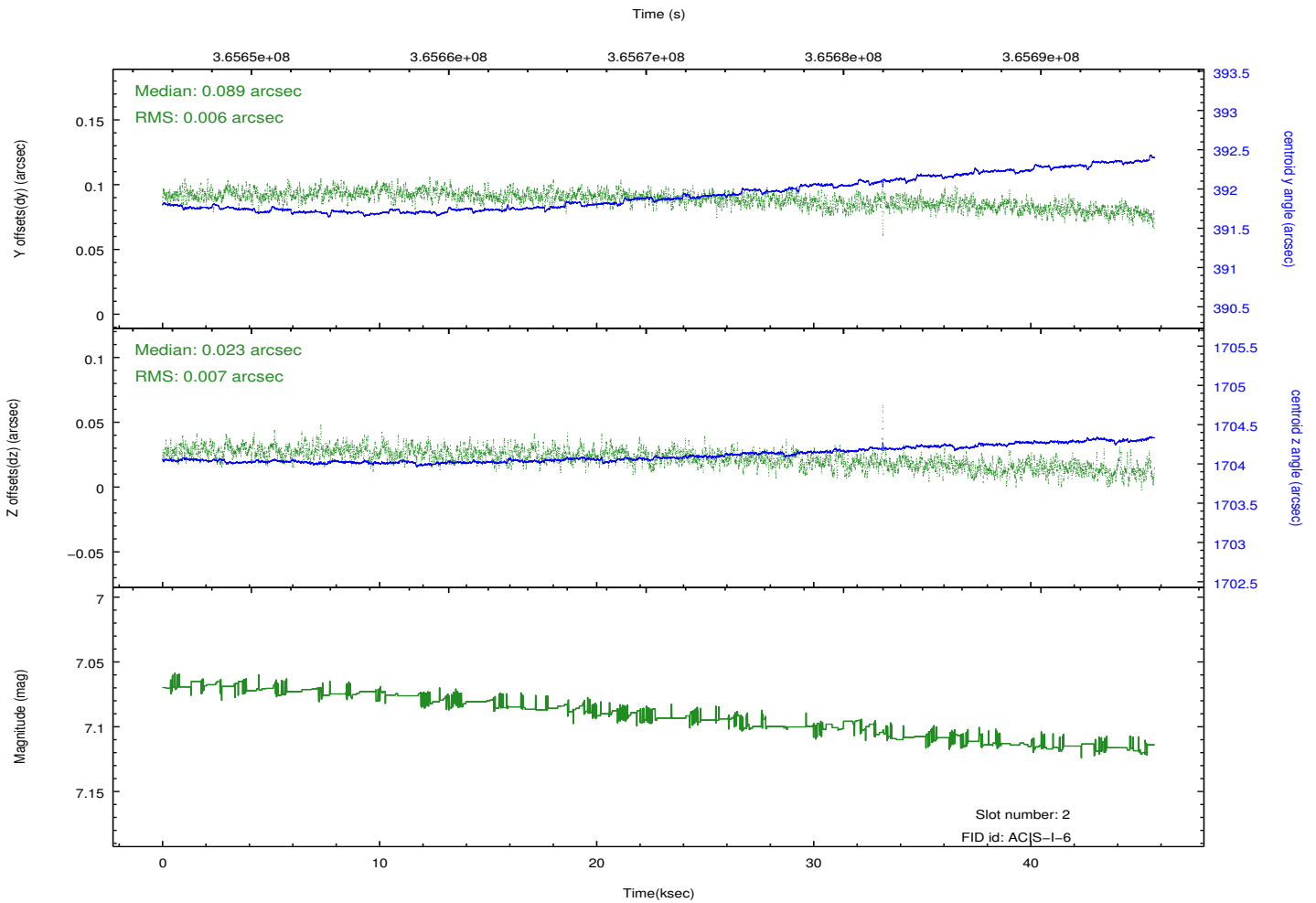
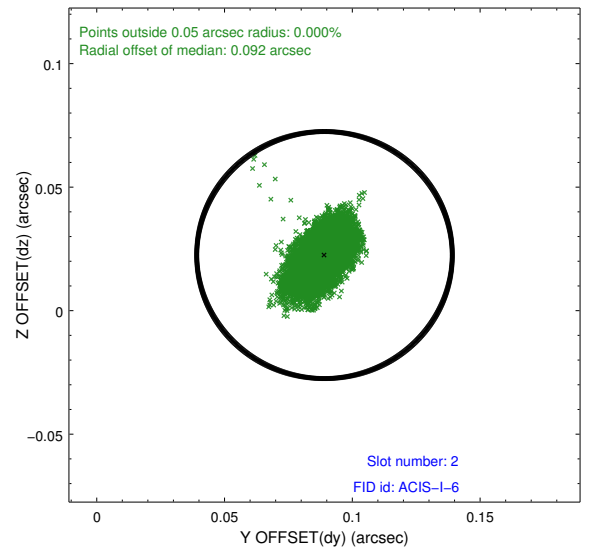
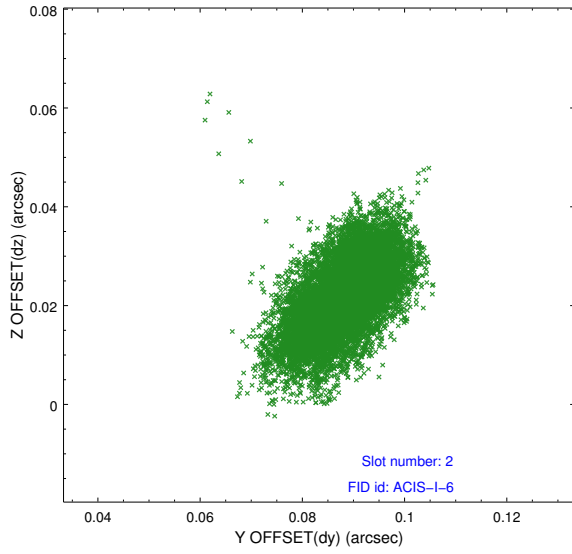
### 2.5.1 Slot 0



## 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)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.036758792043

## A.2 Comments