

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 764 - L2 Version 4
Chandra X-Ray Center

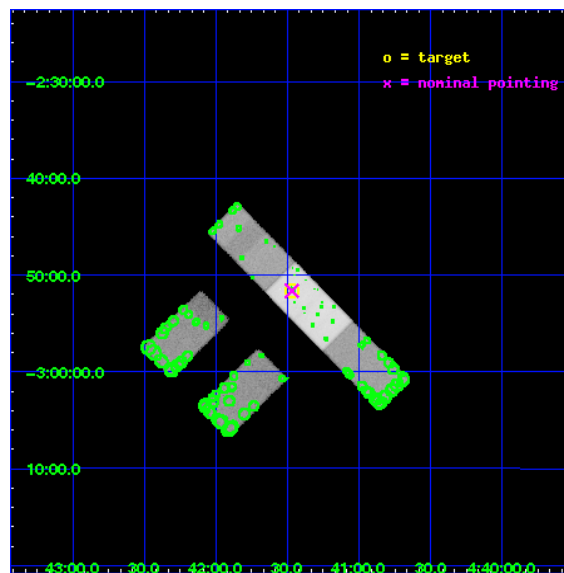
L2 Processing Date : Nov 21 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

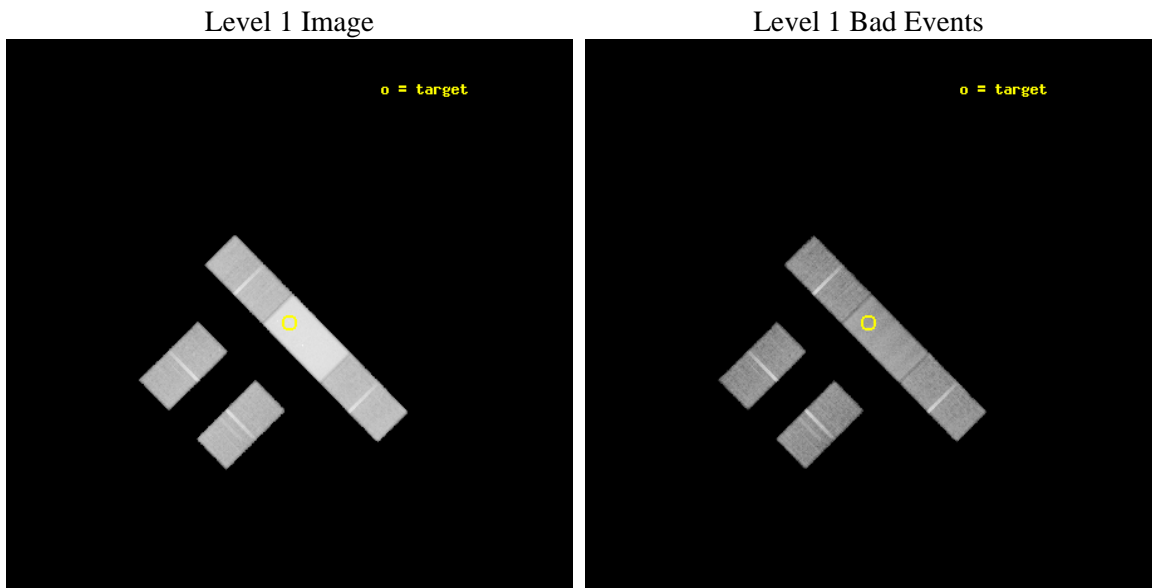
seq_num	500060	Sequence number
obs_id	764	Observation id
title	PROMPT AXAF OBSERVATIONS OF NEARBY SUPERNOVAE	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	SN1999em	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	70.367738	Observer's specified target RA
dec_targ	-2.860653	Observer's specified target Dec
ra_nom	70.367240069851	Nominal RA
dec_nom	-2.8606659470502	Nominal Dec
roll_nom	45.419590410231	Nominal Roll
revision	4	Processing version of data
ontime	26497.708699398	Sum of GTIs [s]
livetime	25907.028450721	Livetime [s]
ontime2	25569.838088855	Sum of GTIs [s]
ontime3	25919.629487969	Sum of GTIs [s]
ontime6	26390.928180784	Sum of GTIs [s]
ontime7	26497.708699398	Sum of GTIs [s]
ontime8	26595.279233426	Sum of GTIs [s]
l2events	637108	Number of level 2 events



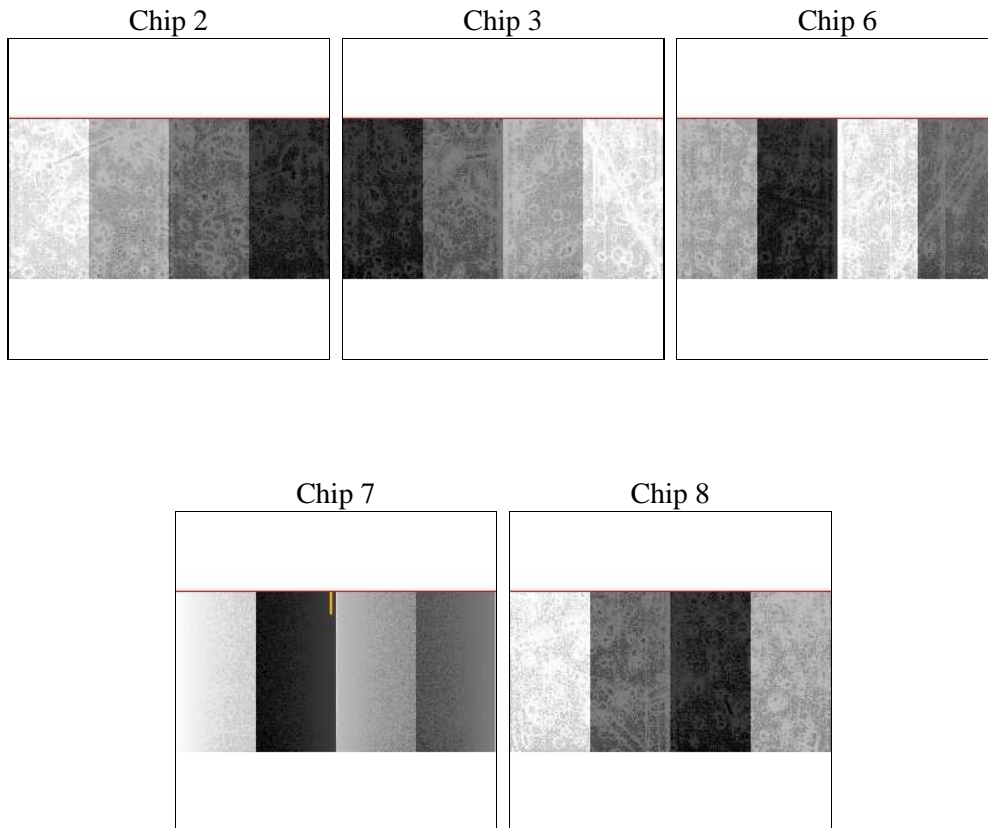
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	26497.708699398	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	25569.838088855	Sum of GTIs [s]
date	2009-11-21T13:09:15	Date and time of file creation	ontime3	25919.629487969	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	26390.928180784	Sum of GTIs [s]
			ontime7	26497.708699398	Sum of GTIs [s]
			ontime8	26595.279233426	Sum of GTIs [s]
			l1events	1274444	Number of level 1 events

2.1.4 Events

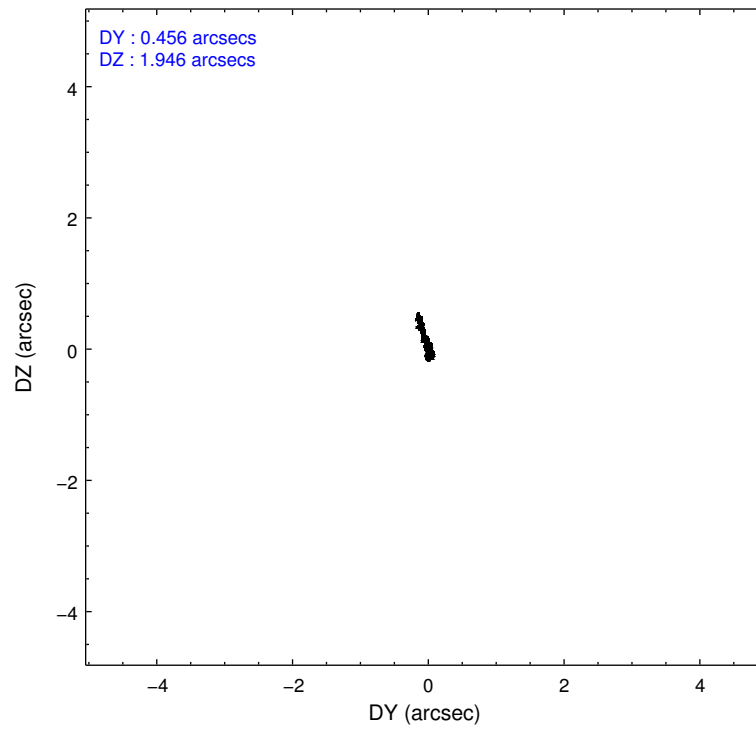
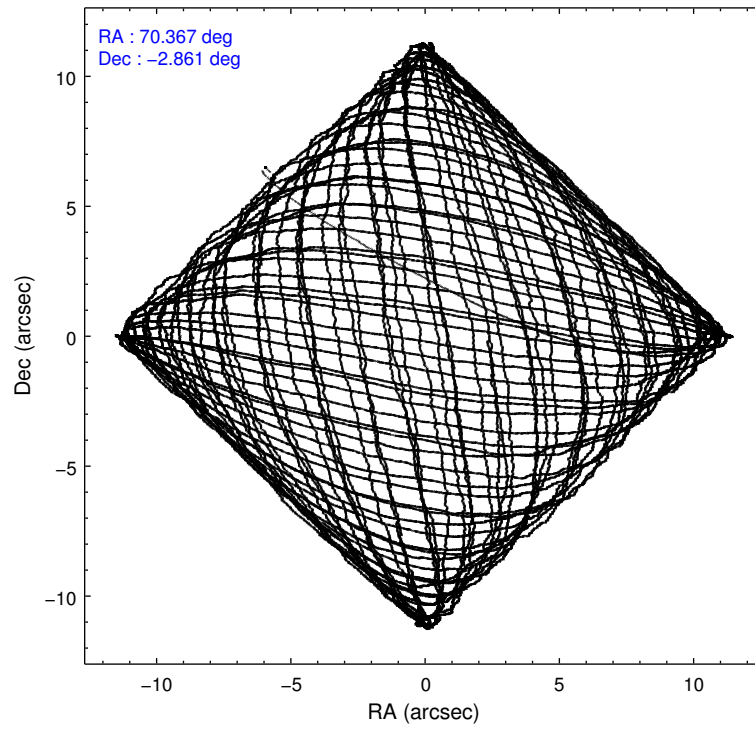
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	150697	150655	181466	593115	198511
rejected events	115419	113803	116942	140630	128653
rejected %	76%	75%	64%	23%	64%

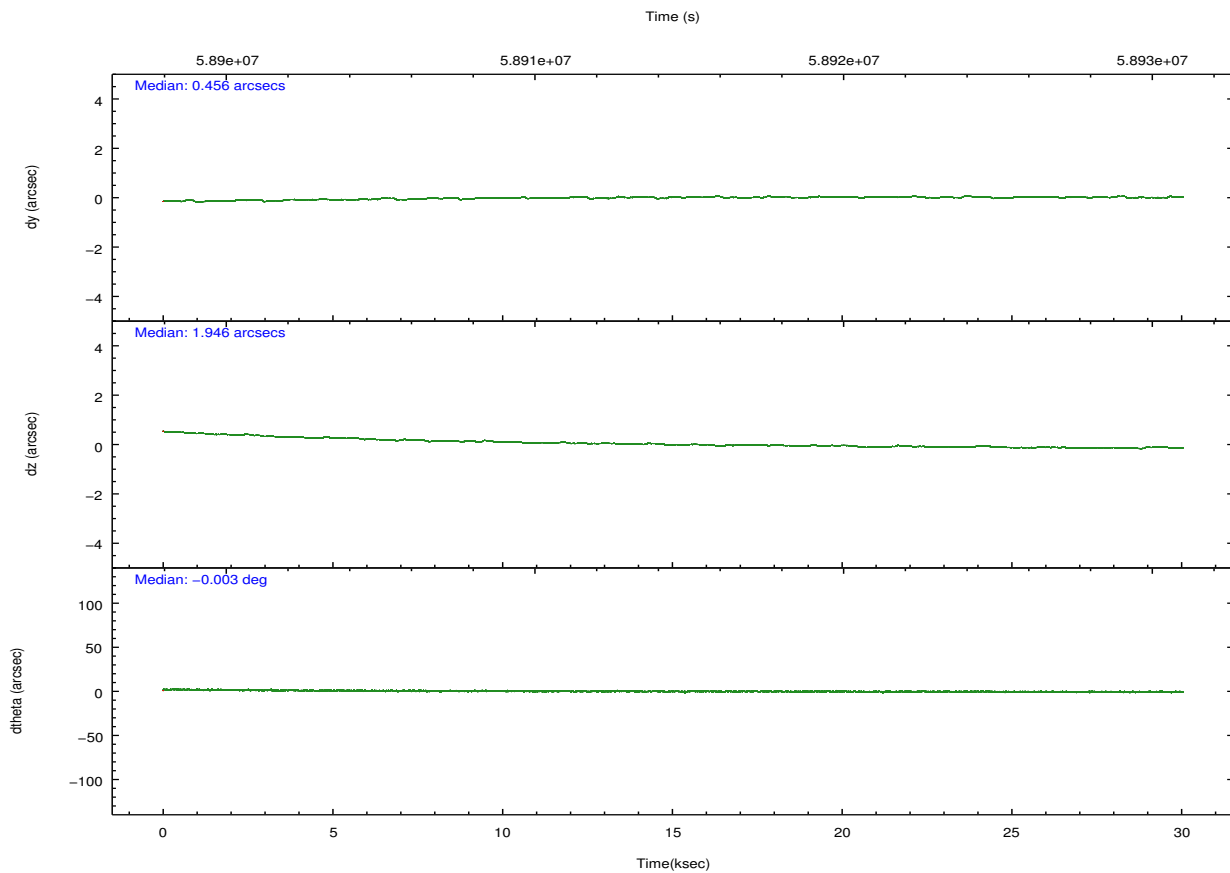
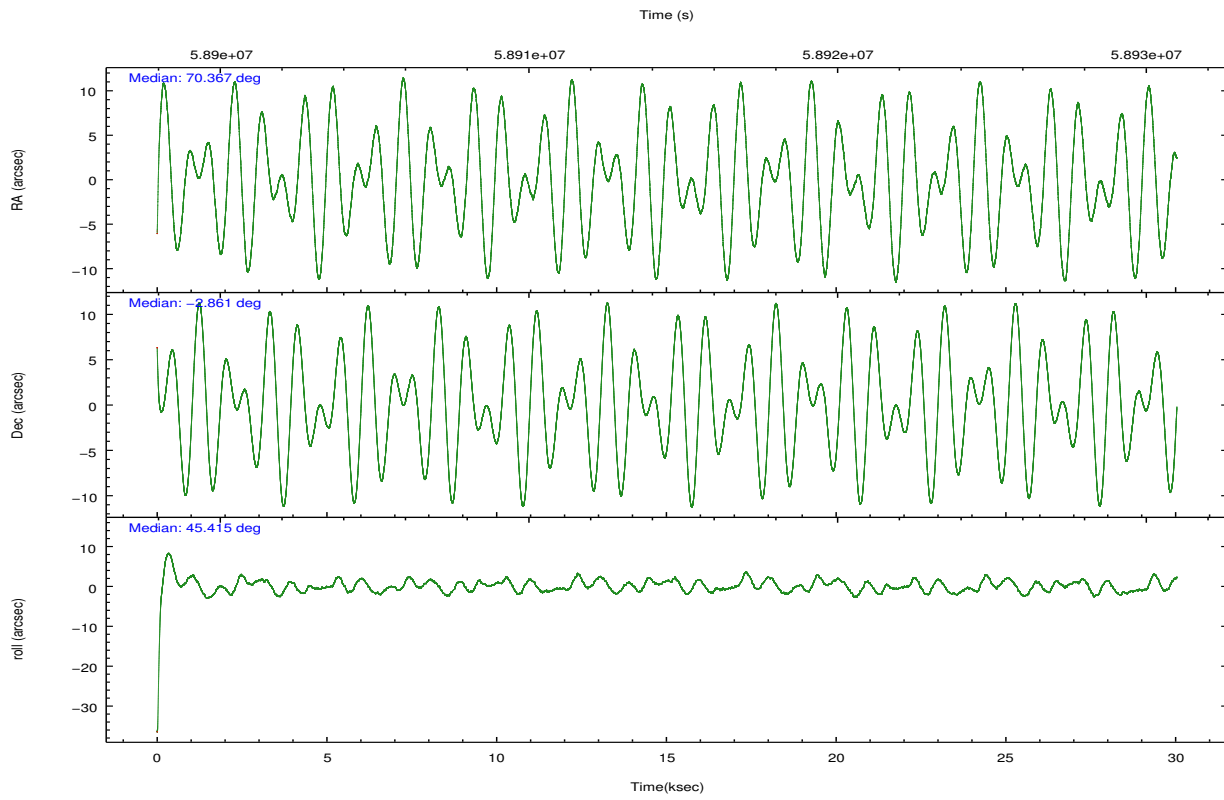
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	8918	8715	15762	48693	19242
	5%	5%	8%	8%	9%
grade 1 events	26	22	35	106	36
	0%	0%	0%	0%	0%
grade 2 events	20728	22702	41995	85116	38559
	13%	15%	23%	14%	19%
grade 3 events	1074	1079	1162	29461	2210
	0%	0%	0%	4%	1%
grade 4 events	1078	932	1115	27729	2042
	0%	0%	0%	4%	1%
grade 5 events	1806	1995	2259	10973	3051
	1%	1%	1%	1%	1%
grade 6 events	3485	3427	4497	261553	7815
	2%	2%	2%	44%	3%
grade 7 events	113582	111783	114641	129484	125556
	75%	74%	63%	21%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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
Pointing RA	70.360181	70.36724006985101	Subarray requested	CUSTOM	1/2
Pointing Dec	-2.887318	-2.860665947050245	Subarray start row	257	257
Pointing Roll	45.262617	45.41959041023114	Subarray row count	512	512
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.8
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	58899885.184000	58898245.42187			
Observation start date	1999-11-13T17:03:41	1999-11-13T16:37:25			
Observation end time	58924885.184000	58930204.410525			
Observation end date	1999-11-14T00:00:21	1999-11-14T01:30:04			
Read mode	TIMED	TIMED			

2.3 Aspect



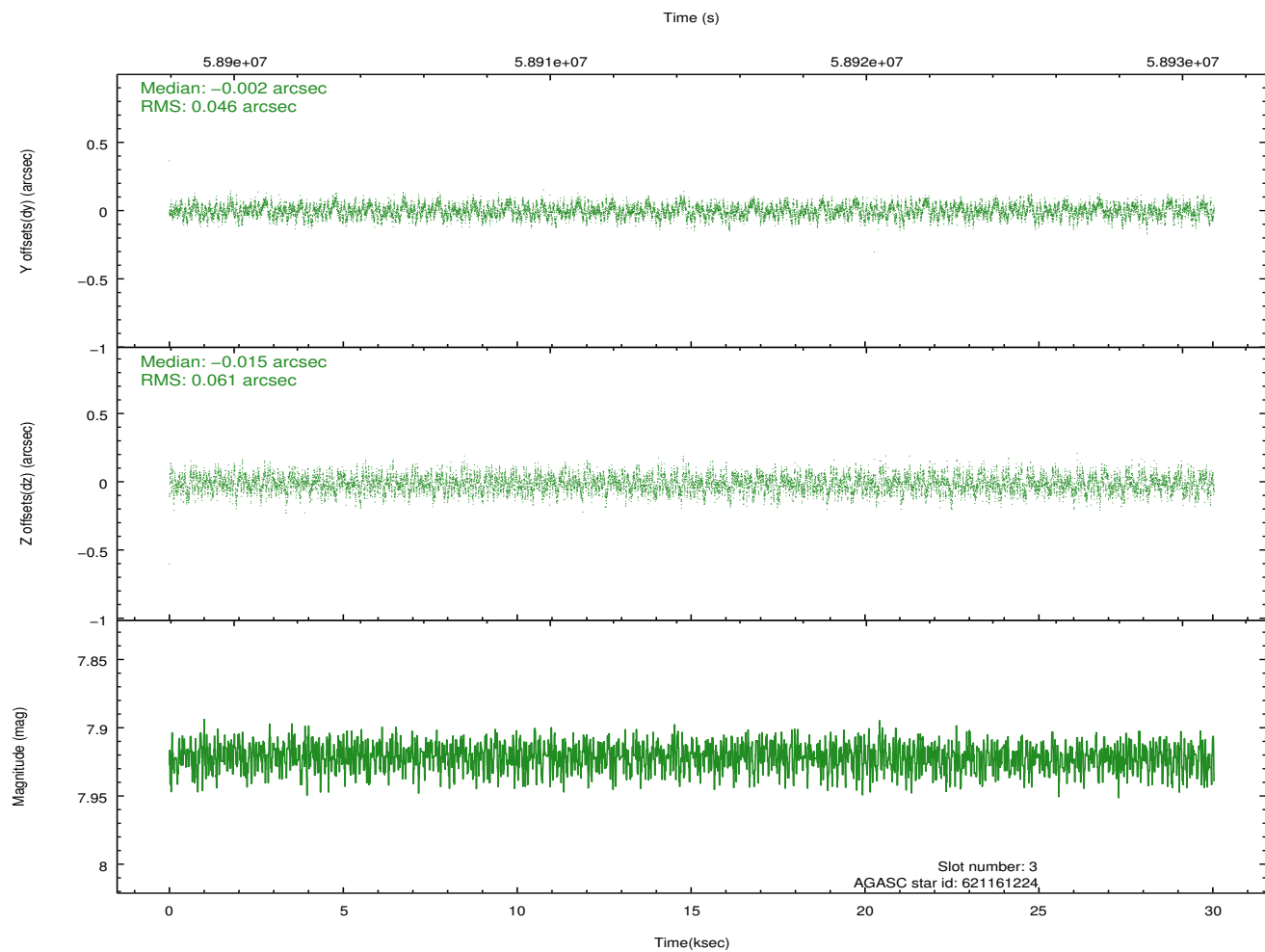
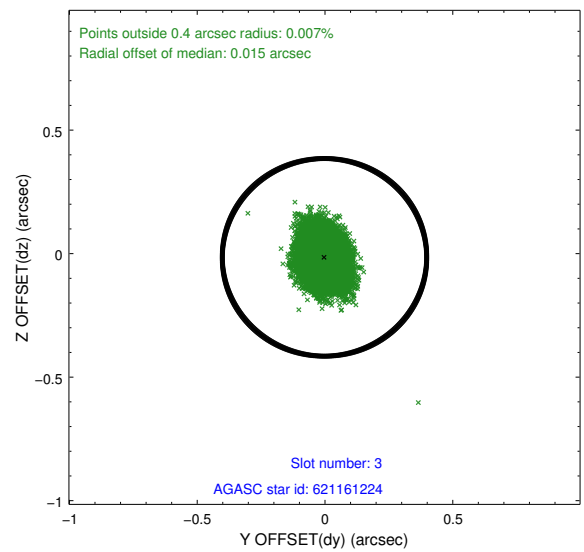
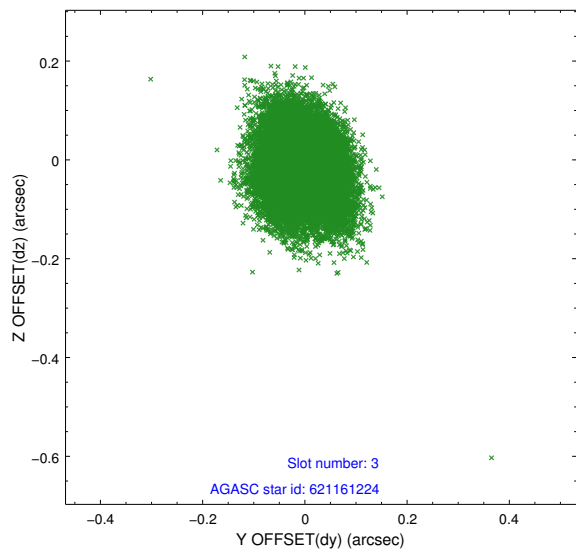


Slot Statistics

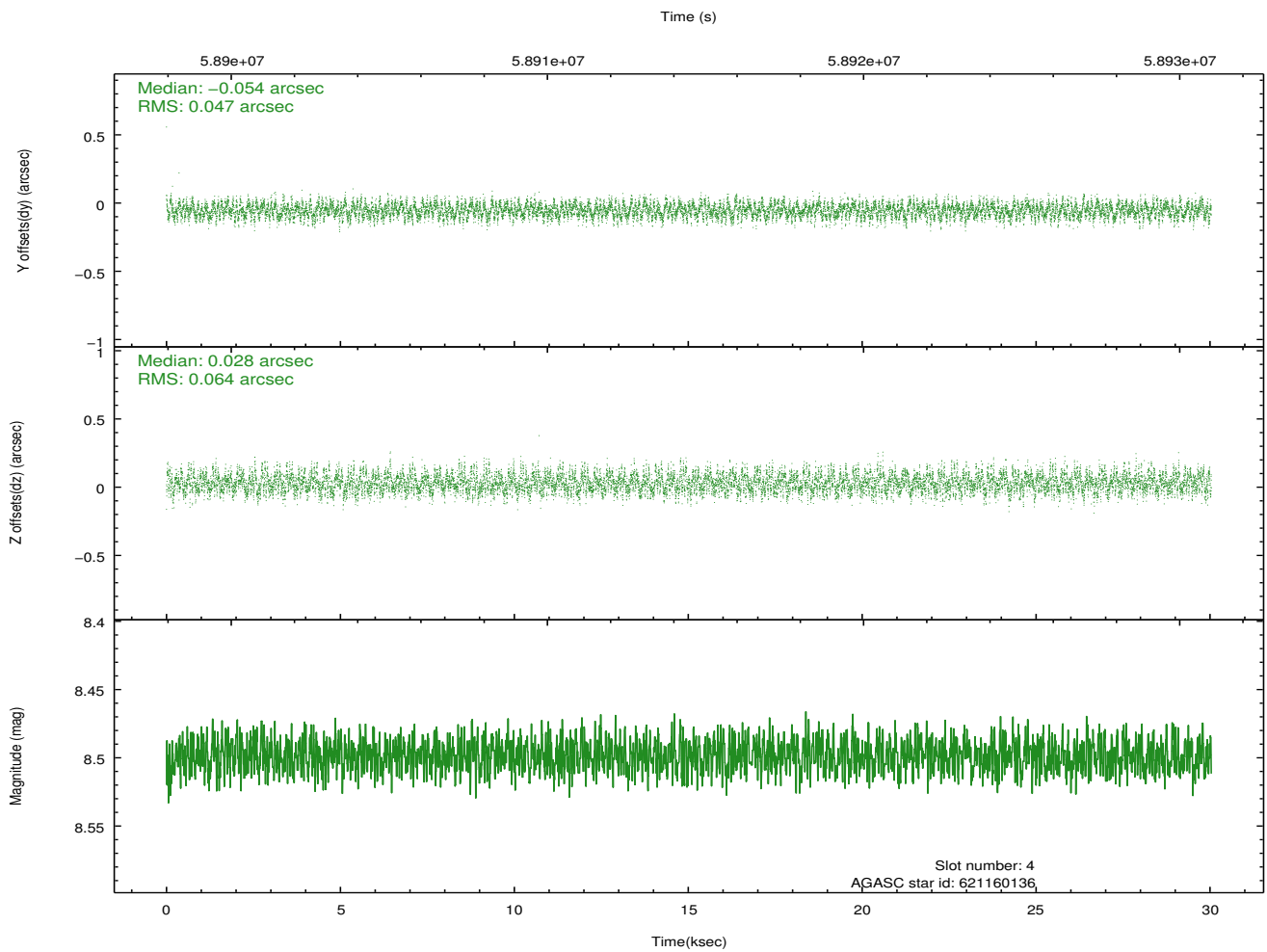
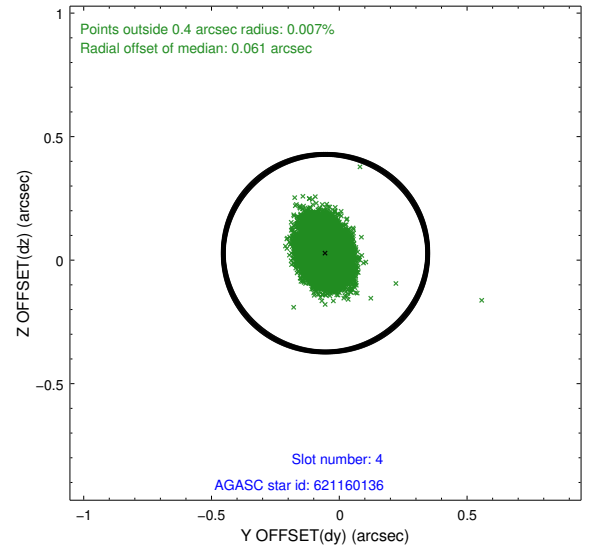
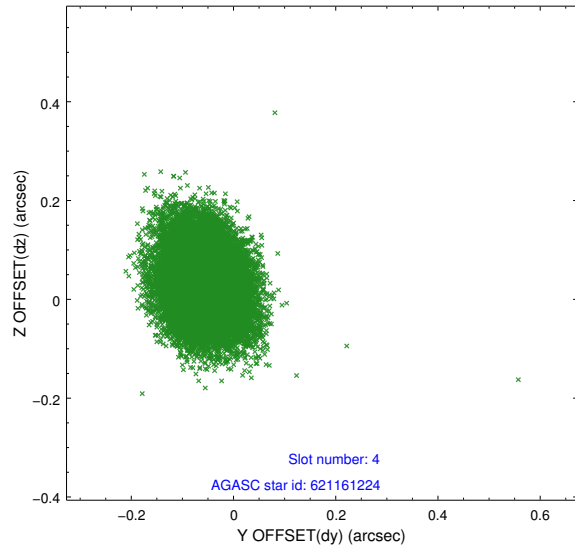
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	14654	-0.018	-0.008	0.008	0.013	0.000000	0.000000	-753.06	-1722.97
1	FID	ACIS-S-4	7.22	14653	0.059	0.011	0.007	0.013	0.000000	0.000000	2160.35	185.51
2	FID	ACIS-S-5	7.24	14654	-0.072	0.006	0.007	0.012	0.000000	0.000000	-1805.98	179.21
3	GUIDE	621161224	7.92	14650	-0.002	-0.015	0.082	0.130	70.234546	-3.517454	-1928.99	-1276.61
4	GUIDE	621160136	8.50	14652	-0.054	0.028	0.084	0.133	70.727879	-3.324427	-187.73	-2046.91
5	GUIDE	621153256	9.49	14636	-0.036	0.075	0.113	0.181	70.961959	-2.598298	2262.11	-805.67
6	GUIDE	621152152	9.88	14635	0.056	-0.082	0.142	0.240	69.446570	-2.860958	-2245.57	2398.69
7	GUIDE	621157552	9.38	14644	0.031	-0.004	0.088	0.141	70.433855	-2.134390	2111.88	1719.55

2.4 Star Slots

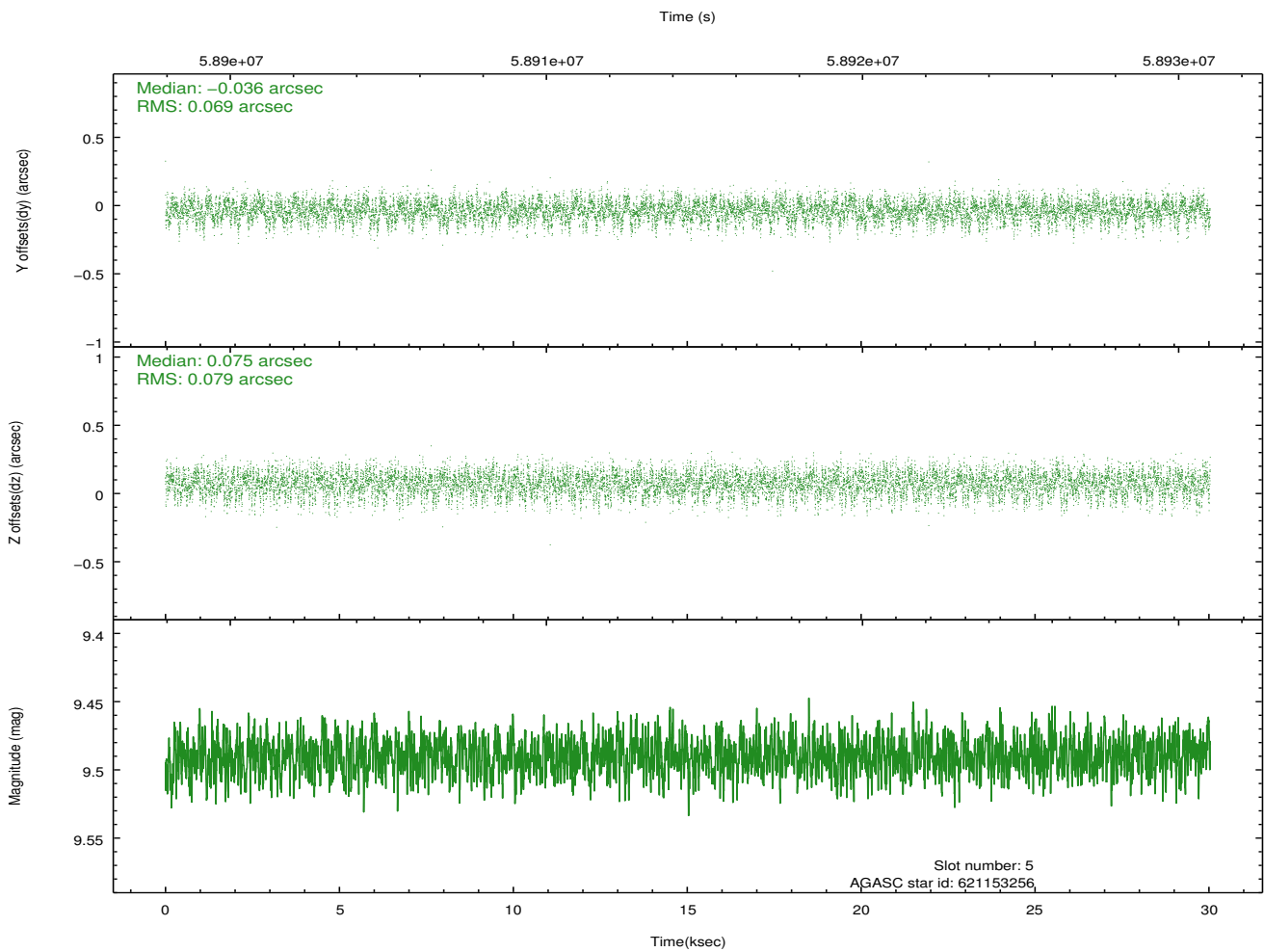
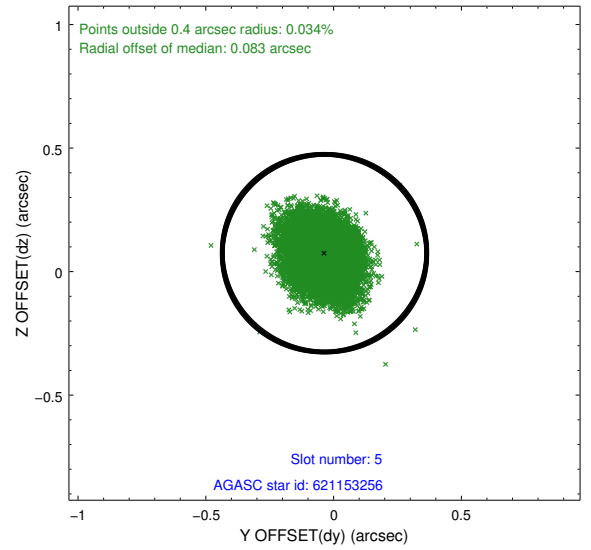
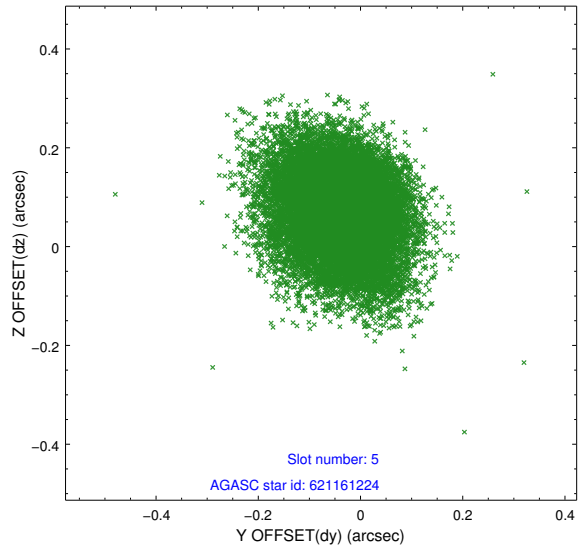
2.4.1 Slot 3



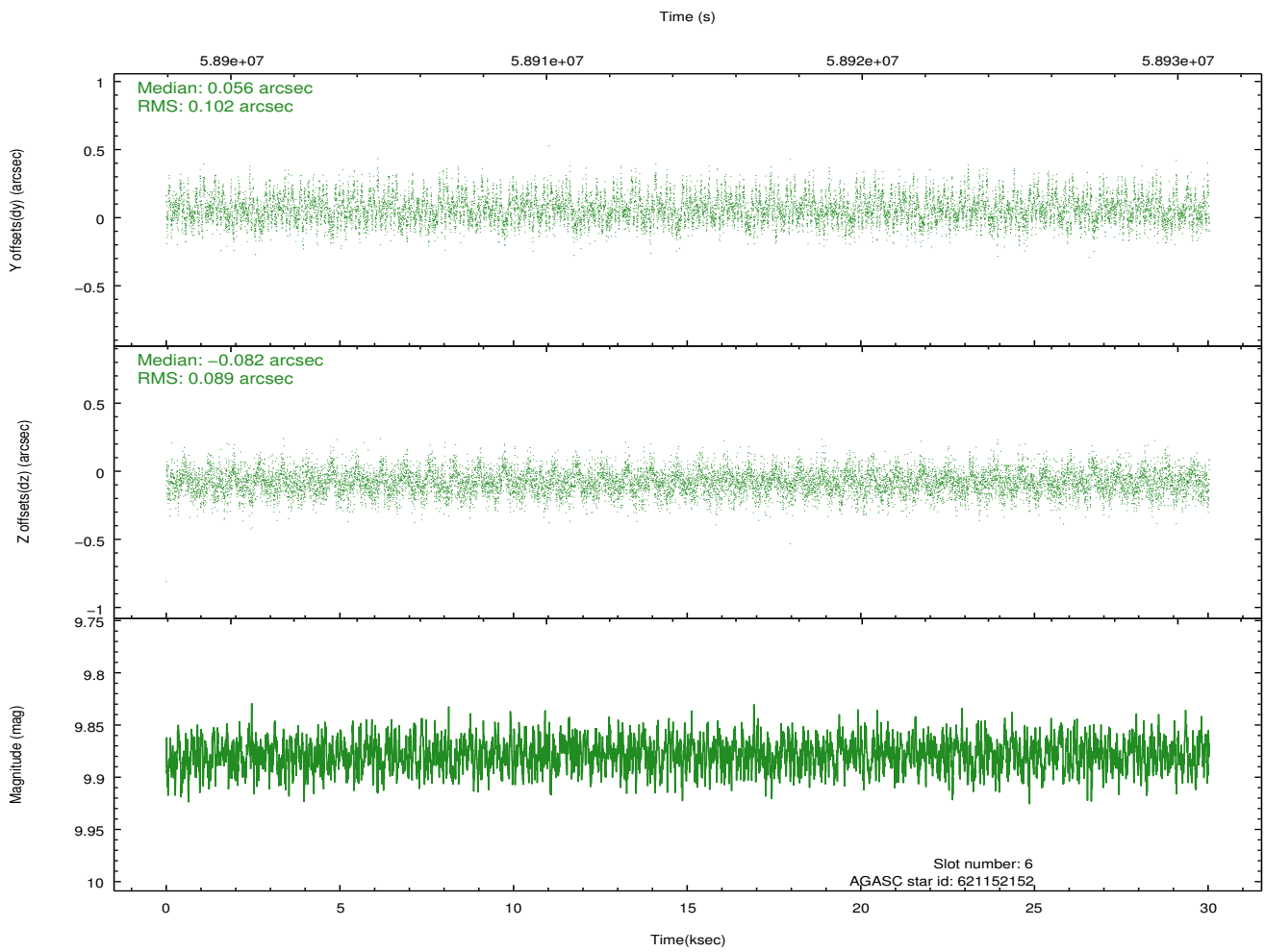
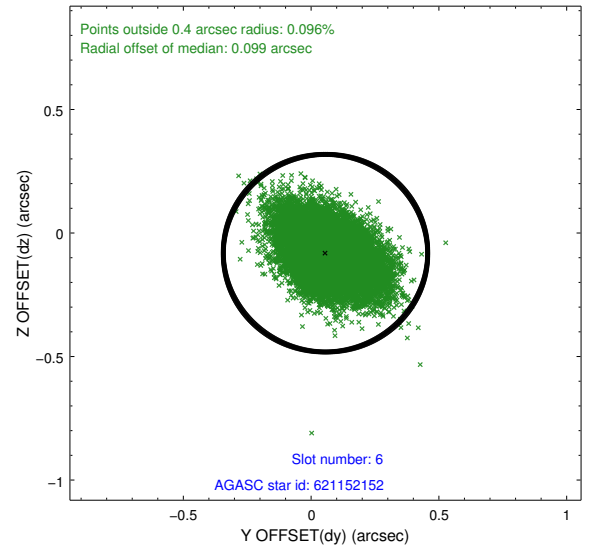
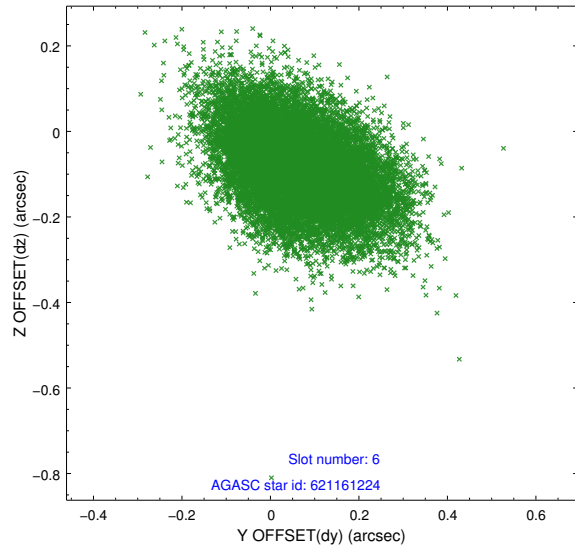
2.4.2 Slot 4



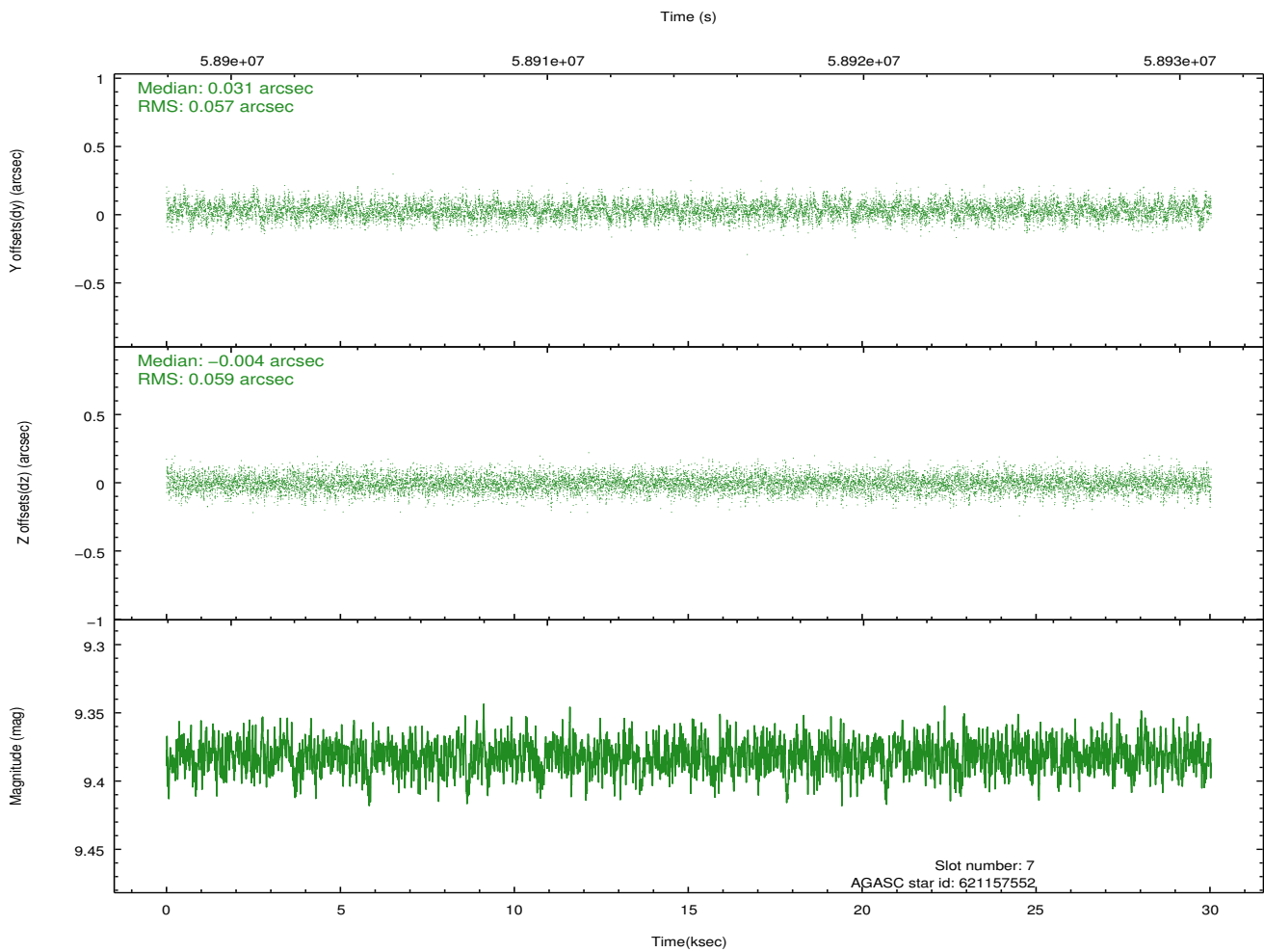
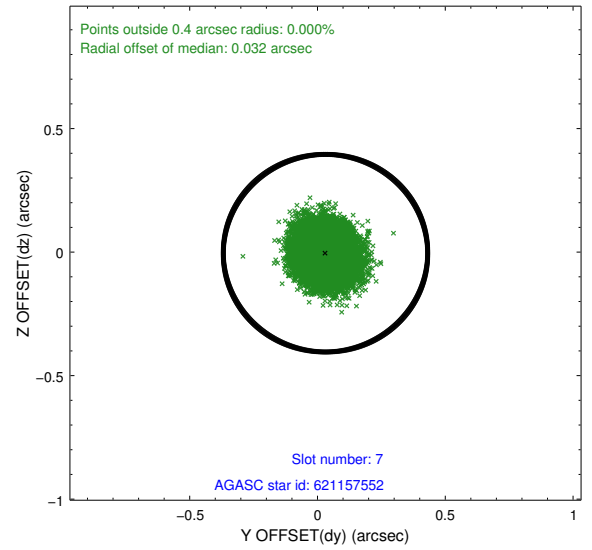
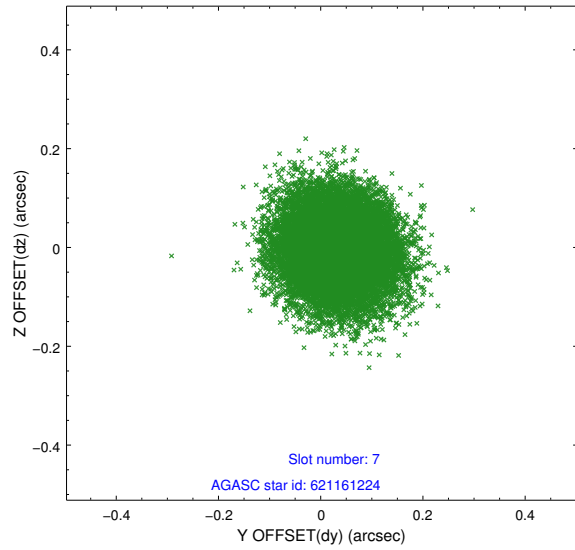
2.4.3 Slot 5



2.4.4 Slot 6

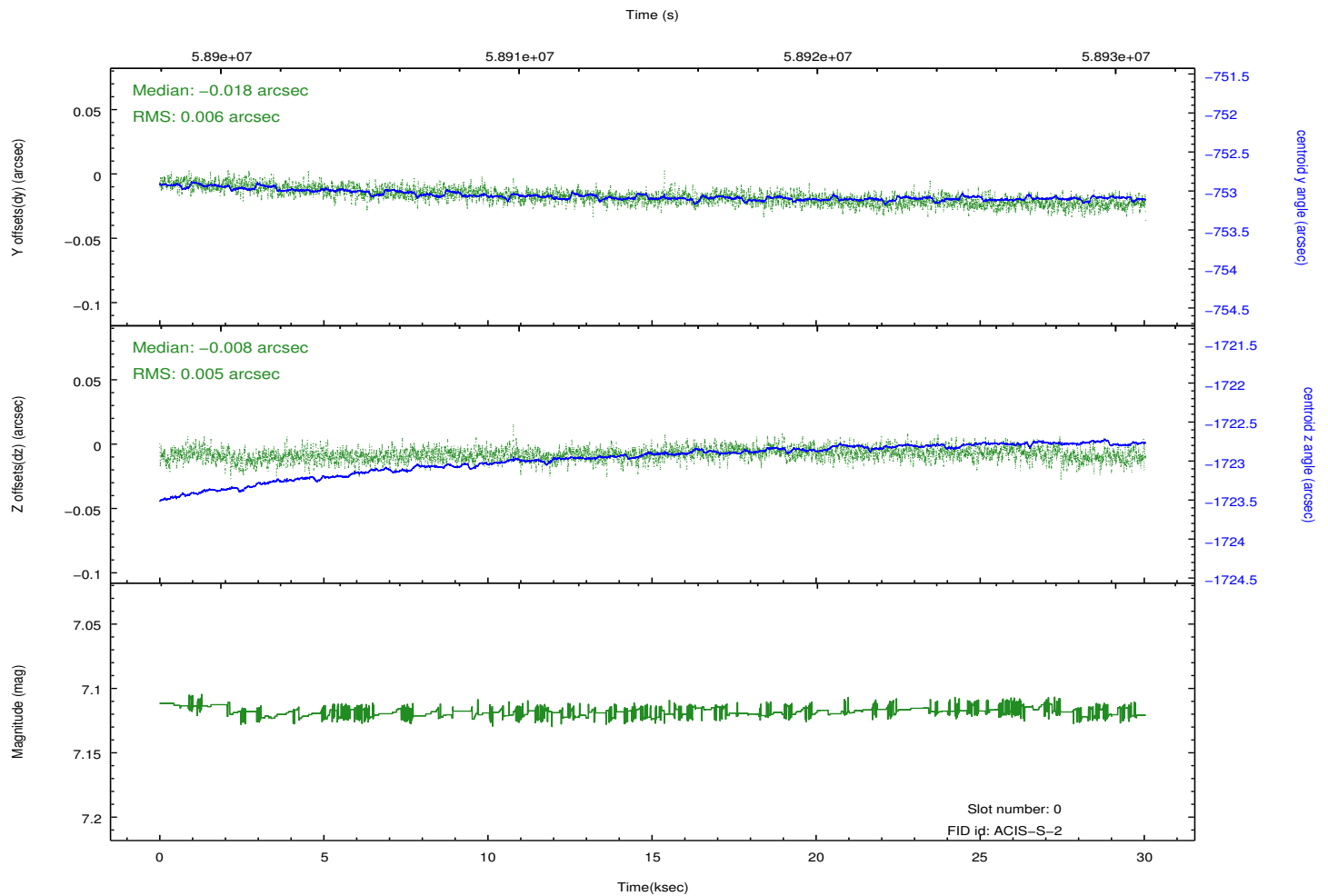
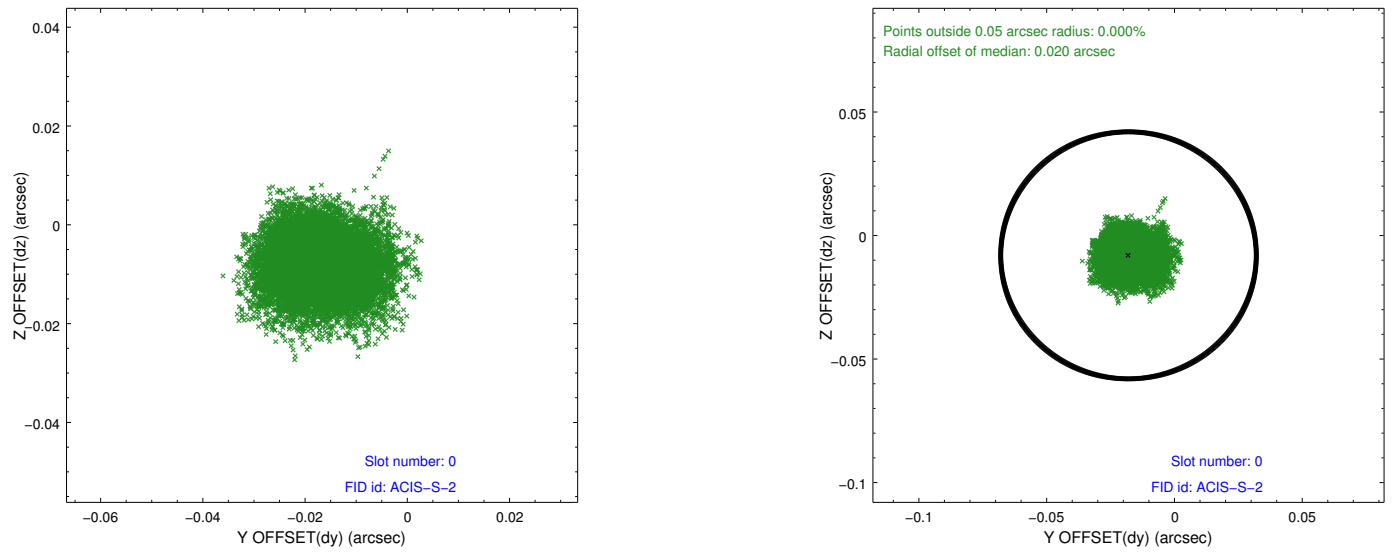


2.4.5 Slot 7

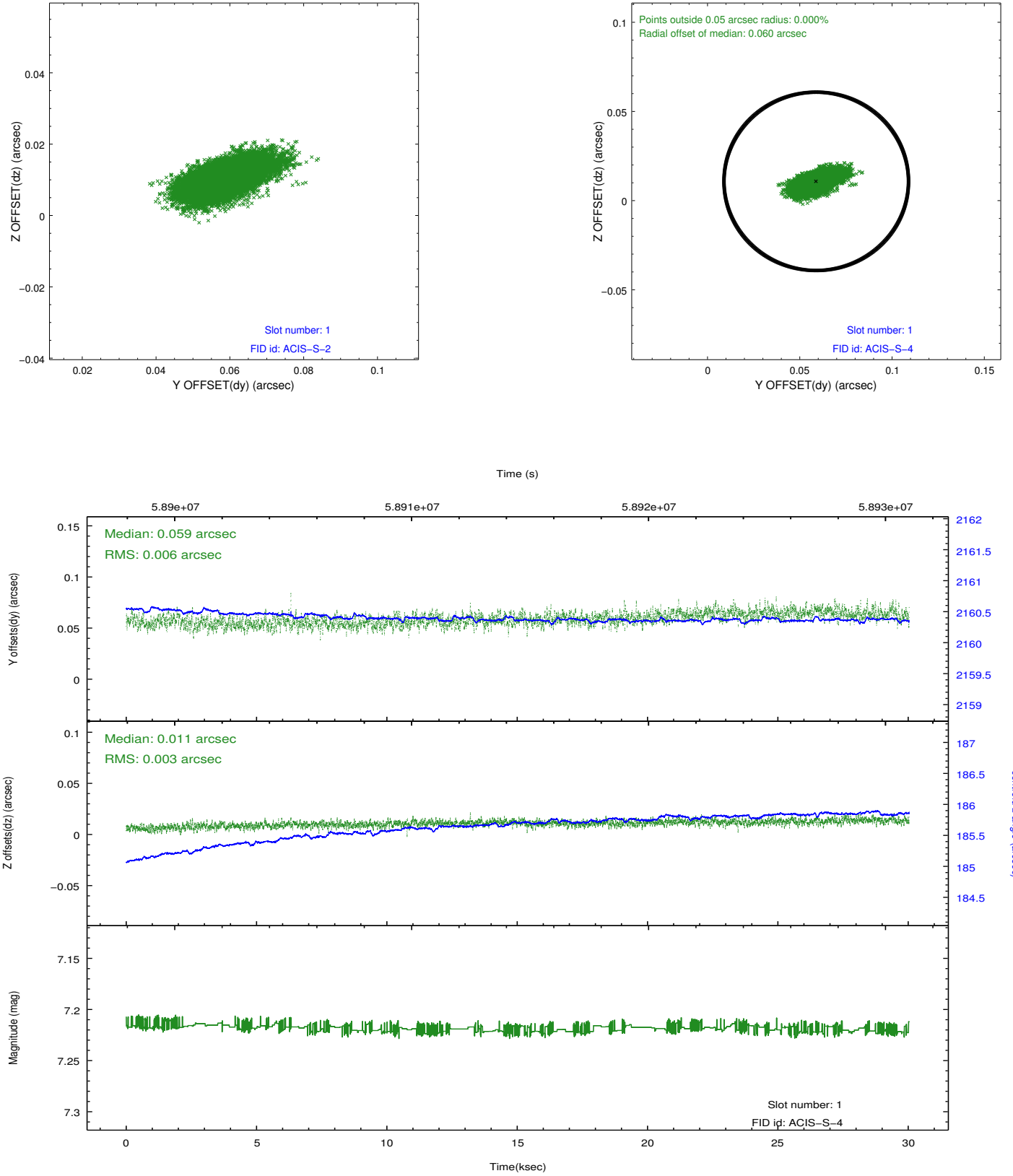


2.5 FID Slots

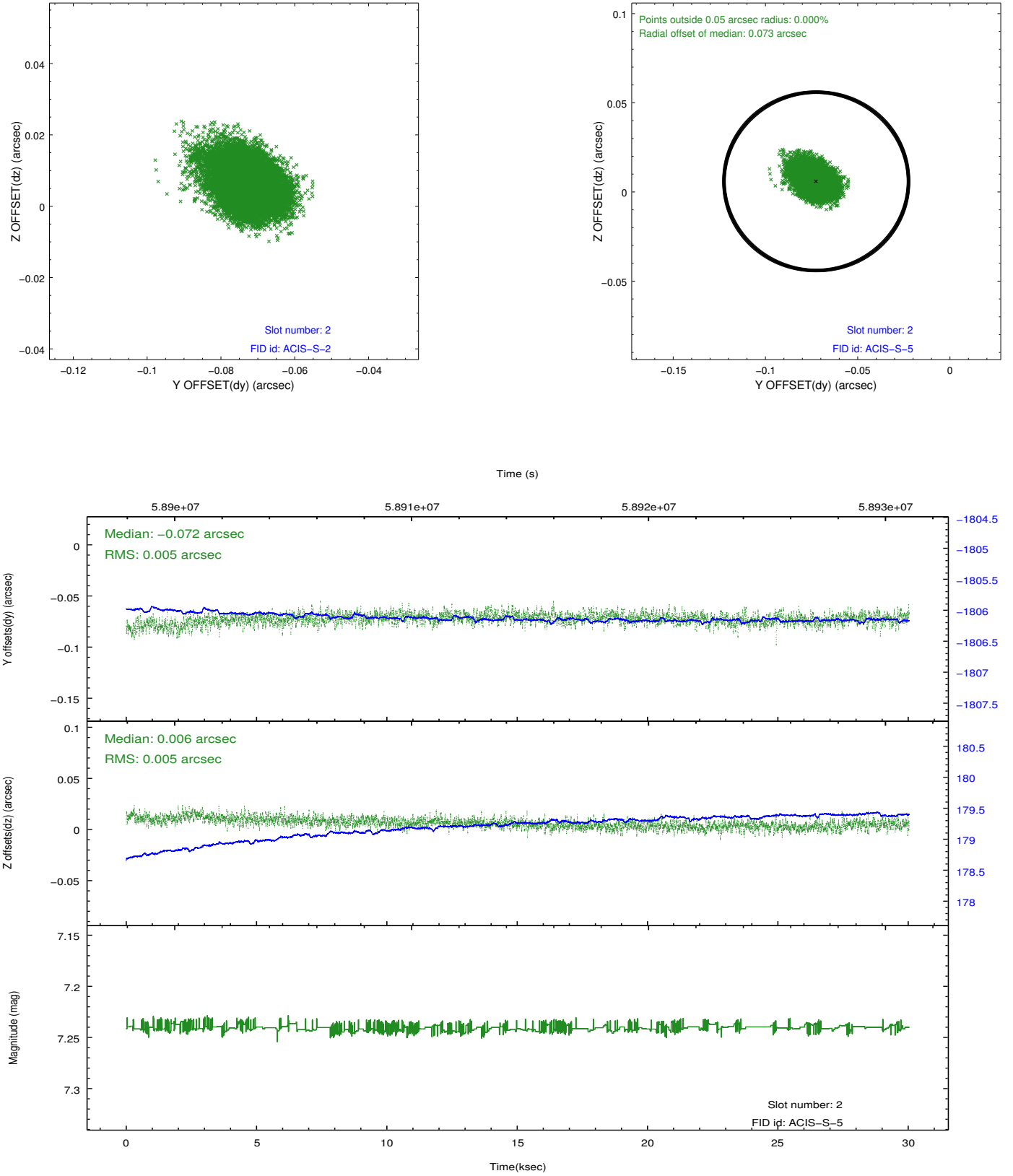
2.5.1 Slot 0



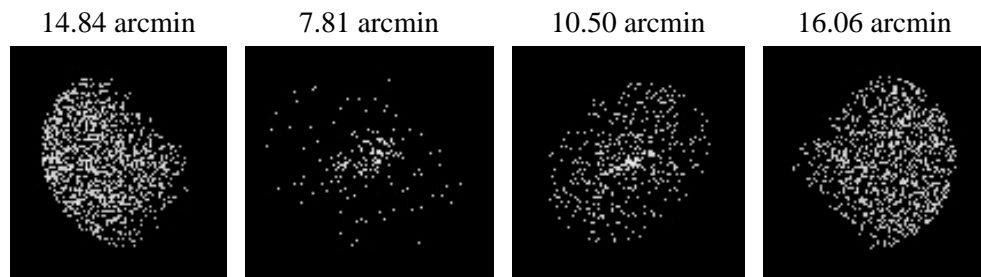
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.557

A.2 Comments

Charge time for this ObsId remains at previous value of 26.557 ksec, although with the current processing the charge time would have been 26.497 ksec.

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The last 13 ksec of this observation had an elevated count rate due to a high radiation environment. Some of this time period is not included in the GTI, but not all of the affected data are marked as bad. User should examine this time interval carefully before using the data.

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.