

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1512 - L2 Version 3

Chandra X-Ray Center

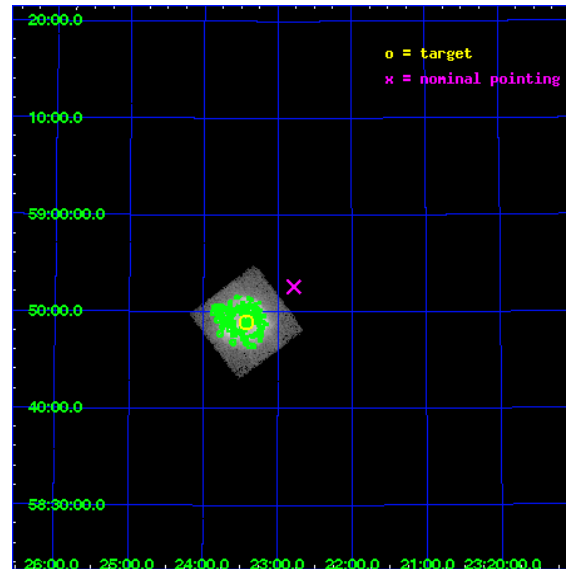
L2 Processing Date : Dec 4 2009

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1 Front

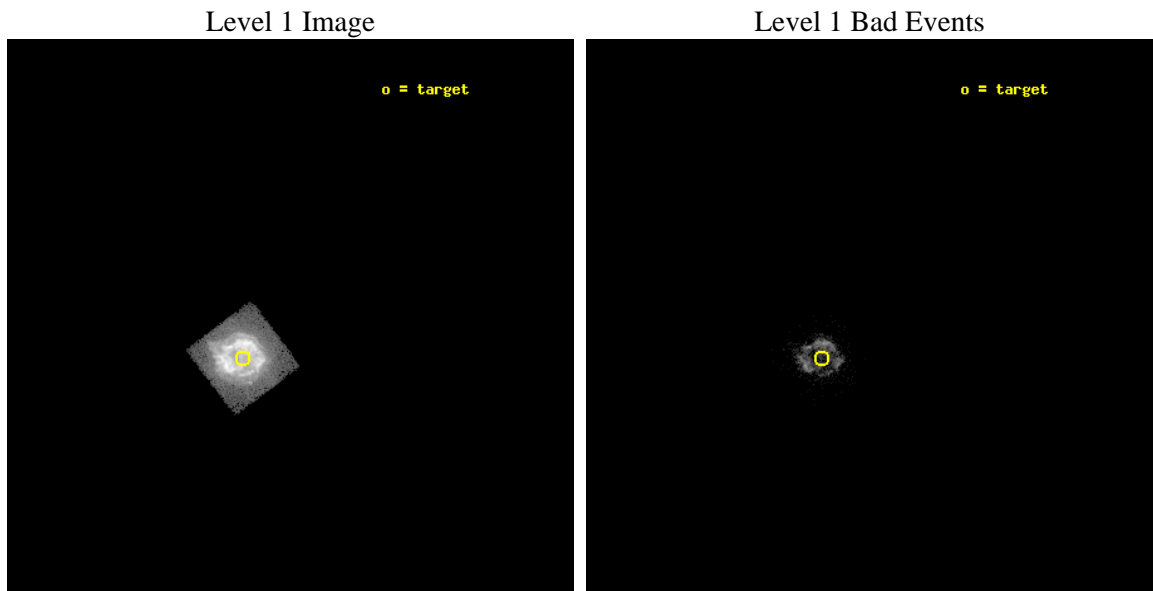
seq_num	580462	Sequence number
obs_id	1512	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S2, T=110, Offsets=6,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA
dec_targ	58.814833	Observer's specified target Dec
ra_nom	350.69552420394	Nominal RA
dec_nom	58.876396897891	Nominal Dec
roll_nom	322.90894344908	Nominal Roll
revision	3	Processing version of data
ontime	1380.7994863167	Sum of GTIs [s]
livetime	1363.3149718034	Livetime [s]
ontime4	1750.3590414152	Sum of GTIs [s]
ontime5	1750.3590414152	Sum of GTIs [s]
ontime6	1380.7994863167	Sum of GTIs [s]
ontime7	1750.3590414152	Sum of GTIs [s]
ontime8	1750.350601472	Sum of GTIs [s]
ontime9	1753.5505216941	Sum of GTIs [s]
l2events	320117	Number of level 2 events



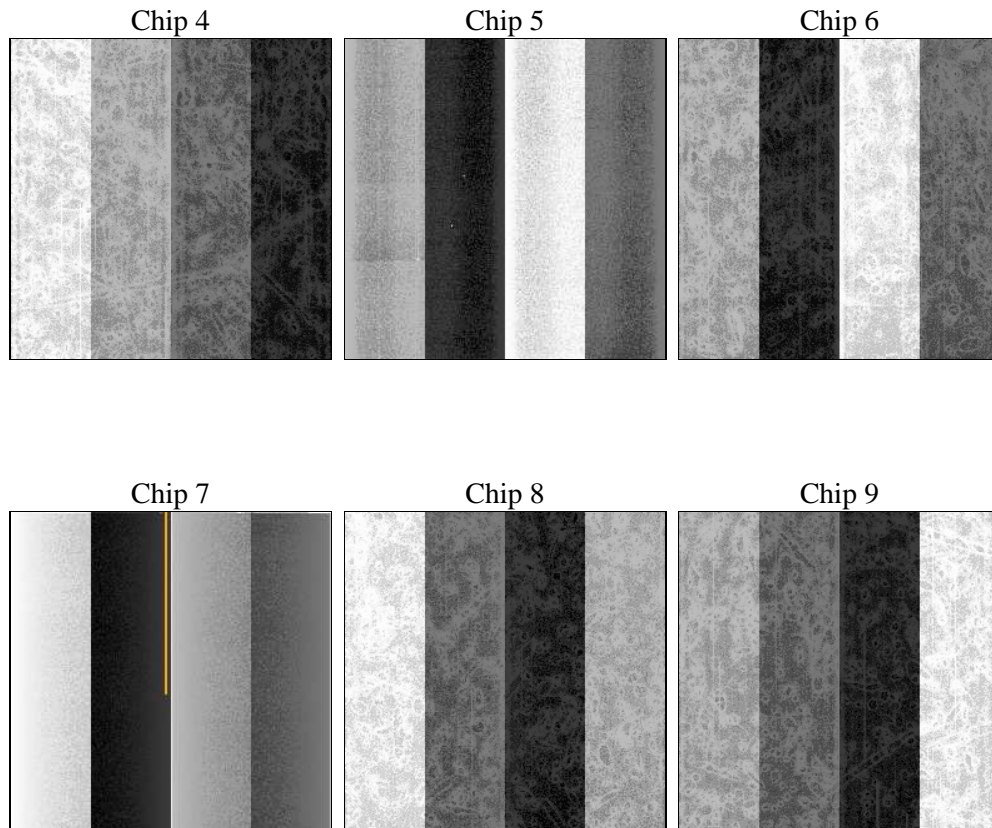
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2734.672000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	1380.7994863167	Sum of GTIs [s]
caldsver	4.1.4	 	ontime4	1750.3590414152	Sum of GTIs [s]
date	2009-12-05T00:49:32	Date and time of file creation	ontime5	1750.3590414152	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1380.7994863167	Sum of GTIs [s]
			ontime7	1750.3590414152	Sum of GTIs [s]
			ontime8	1750.350601472	Sum of GTIs [s]
			ontime9	1753.5505216941	Sum of GTIs [s]
			l1events	334382	Number of level 1 events

2.1.4 Events

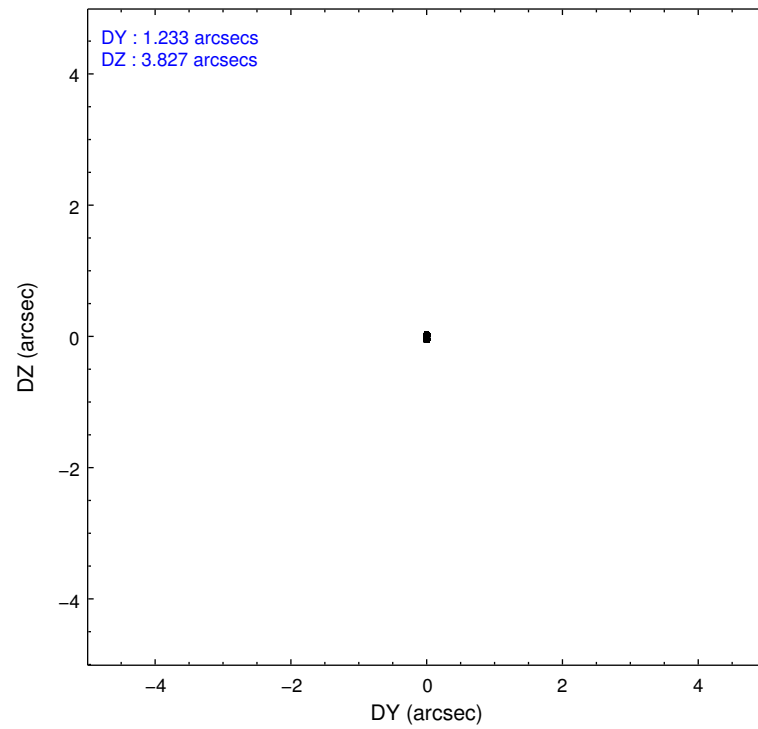
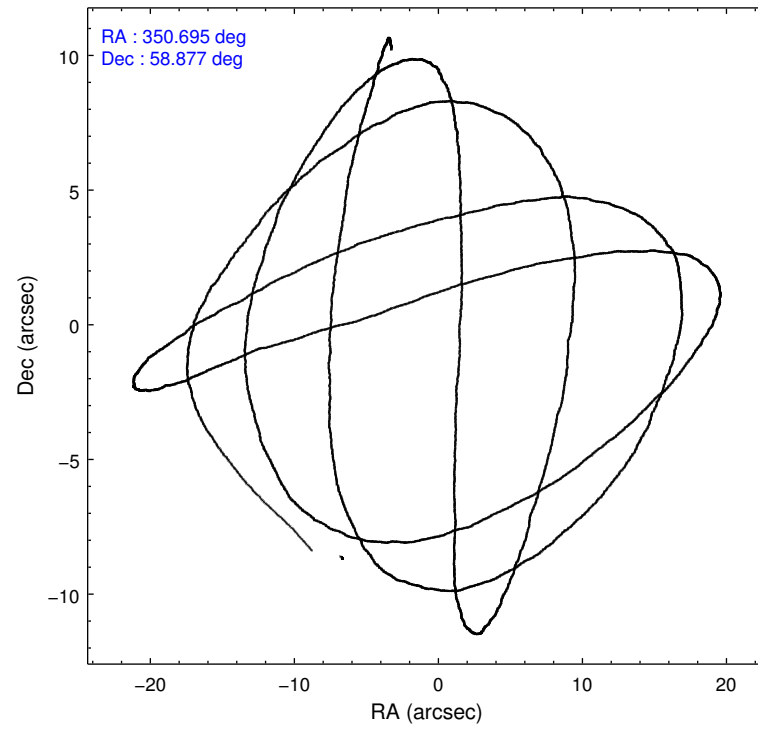
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	334382	0	0	0
rejected events	0	0	10058	0	0	0
rejected %	0%	0%	3%	0%	0%	0%

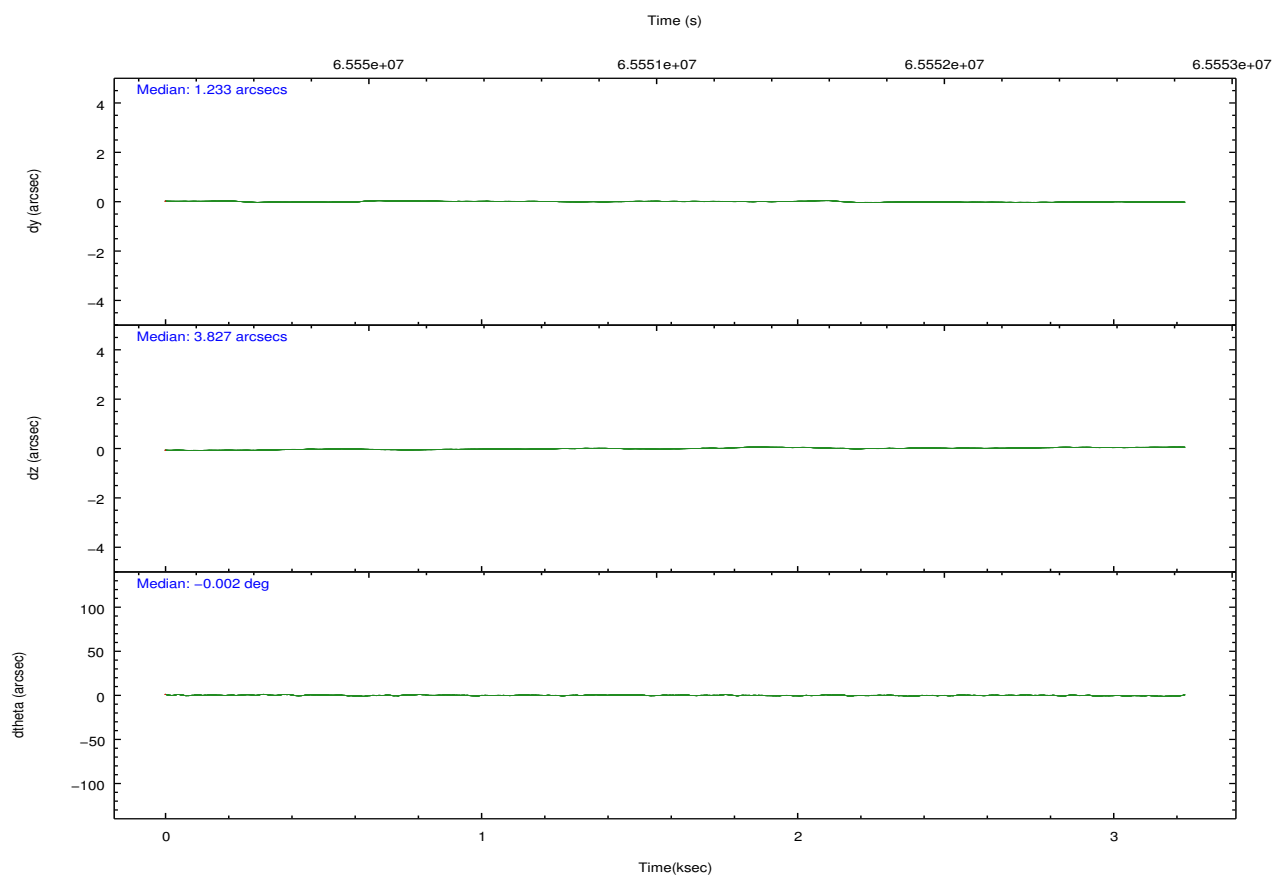
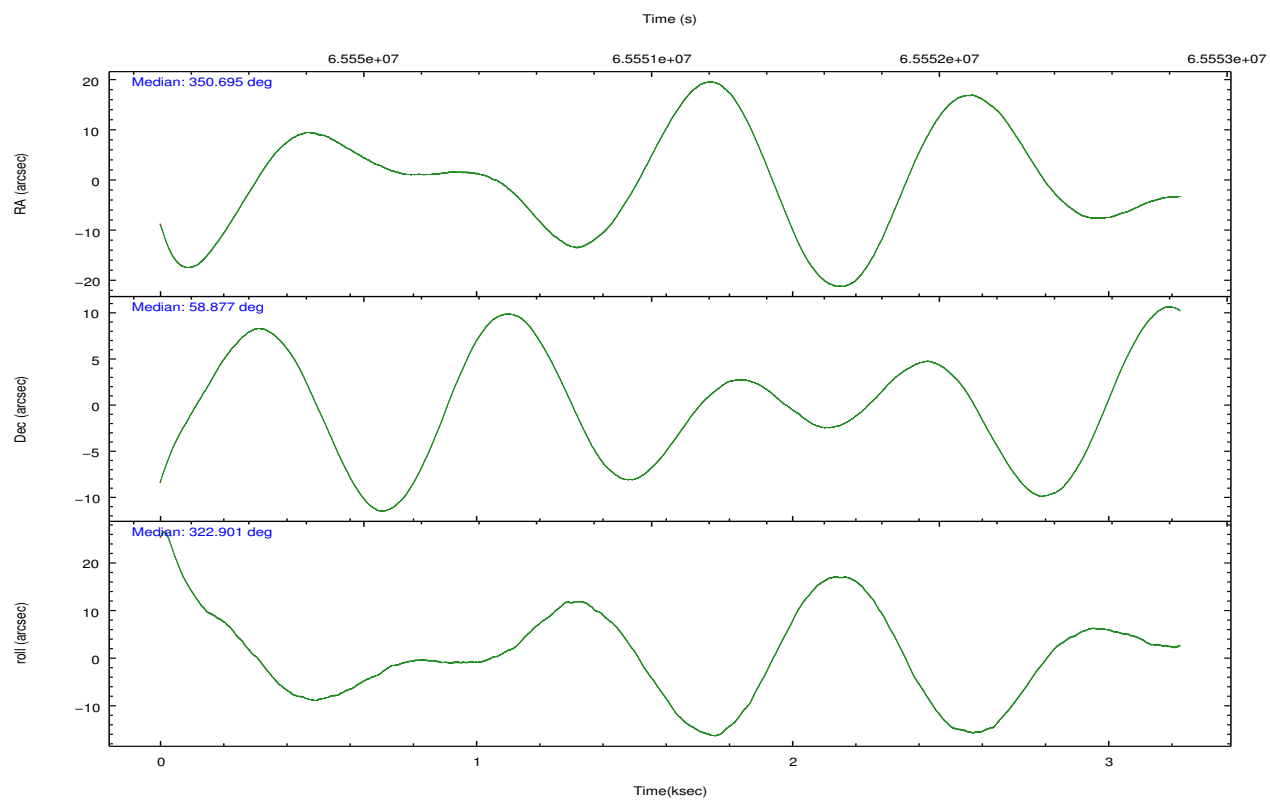
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	207444	0	0	0
	0%	0%	62%	0%	0%	0%
grade 1 events	0	0	2842	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	93531	0	0	0
	0%	0%	27%	0%	0%	0%
grade 3 events	0	0	8090	0	0	0
	0%	0%	2%	0%	0%	0%
grade 4 events	0	0	7942	0	0	0
	0%	0%	2%	0%	0%	0%
grade 5 events	0	0	3044	0	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	11489	0	0	0
	0%	0%	3%	0%	0%	0%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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
Pointing RA	350.642840	350.6955242039405	Subarray requested	NONE	NONE
Pointing Dec	58.879722	58.87639689789073	Alternating exposures requested	N	N
Pointing Roll	322.797360	322.9089434490788	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	65549942.184000	65548946.88785			
Observation start date	2000-01-29T16:17:58	2000-01-29T16:02:26			
Observation end time	65552677.184000	65552811.137991			
Observation end date	2000-01-29T17:03:33	2000-01-29T17:06:51			
Read mode	TIMED	TIMED			

2.3 Aspect



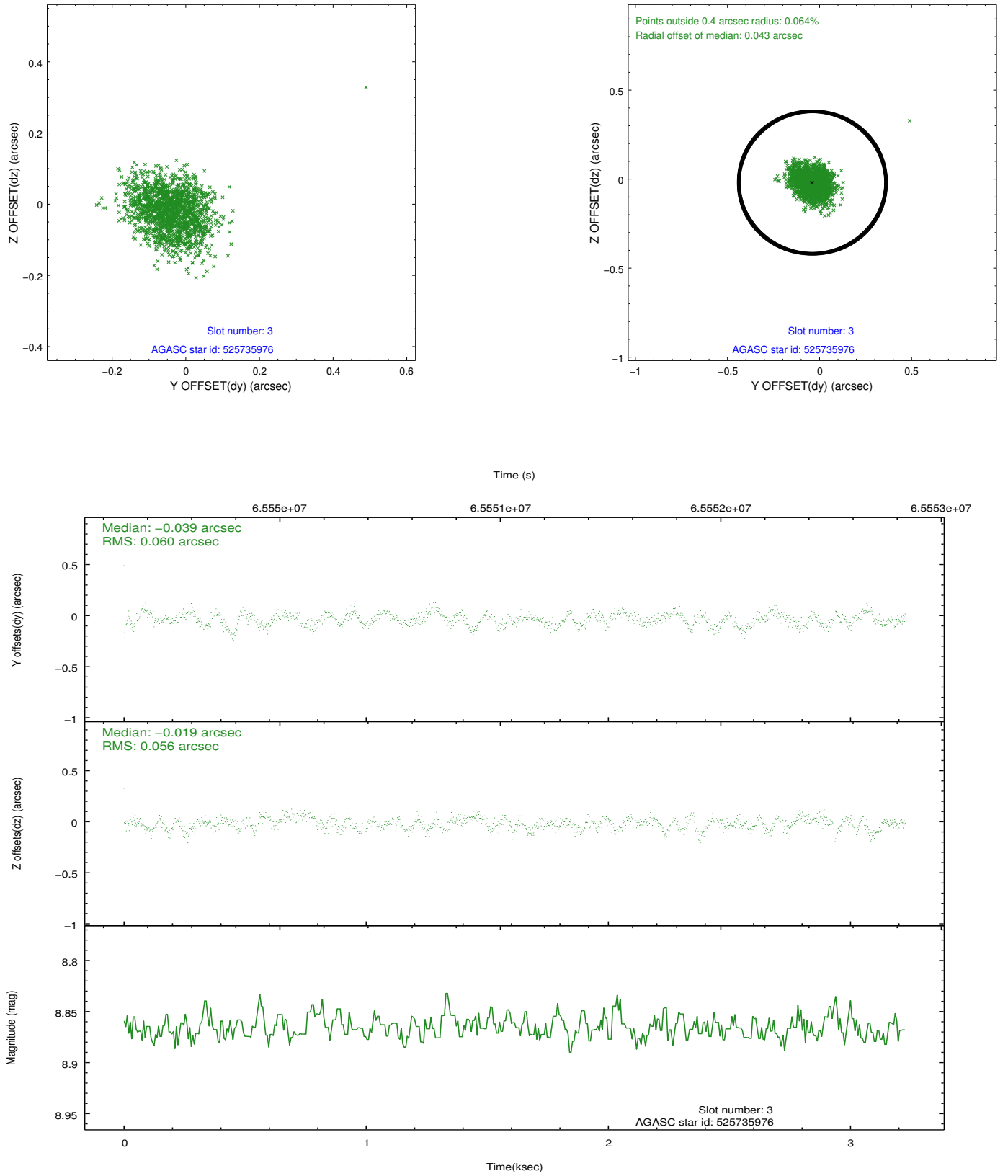


Slot Statistics

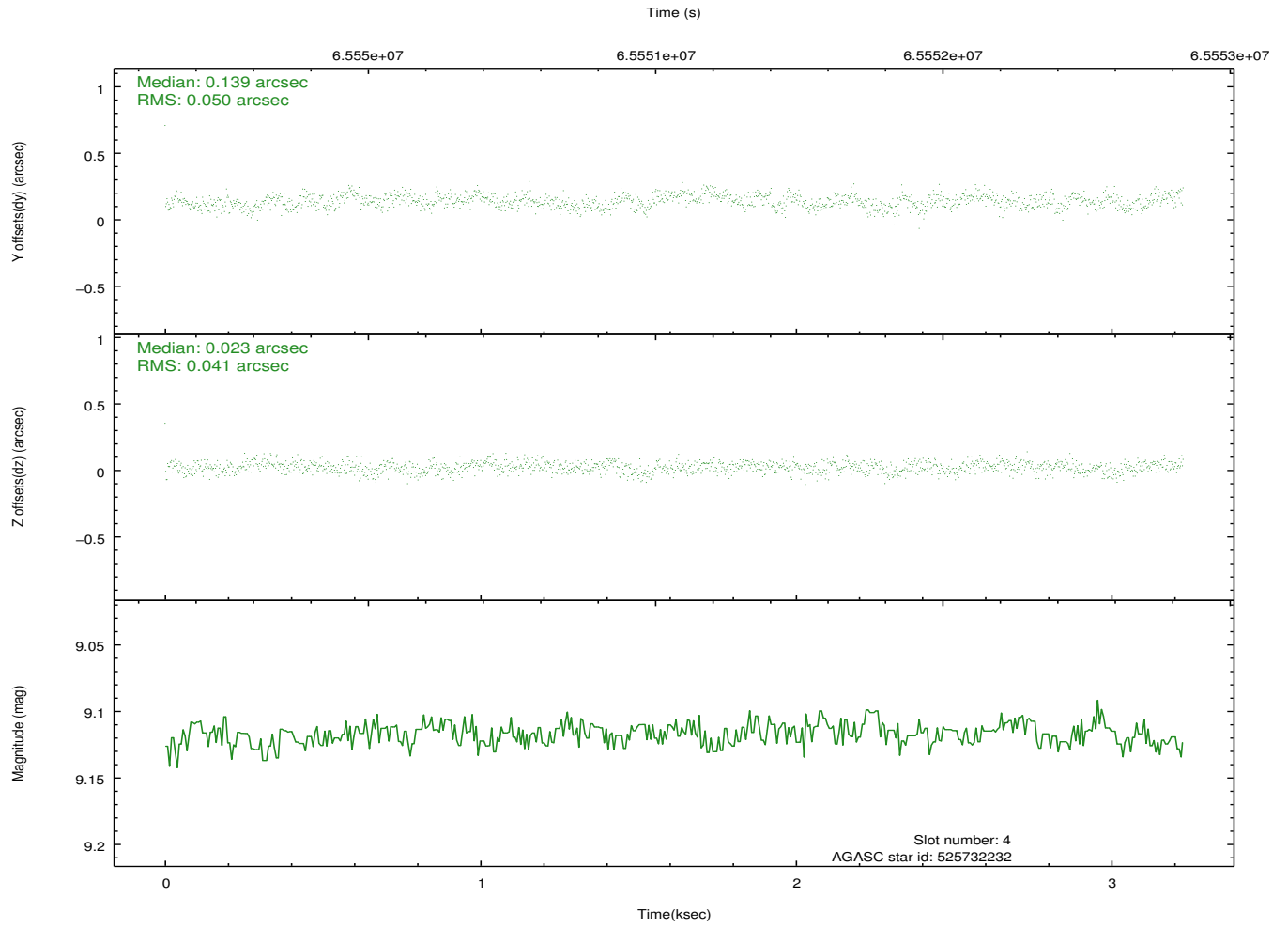
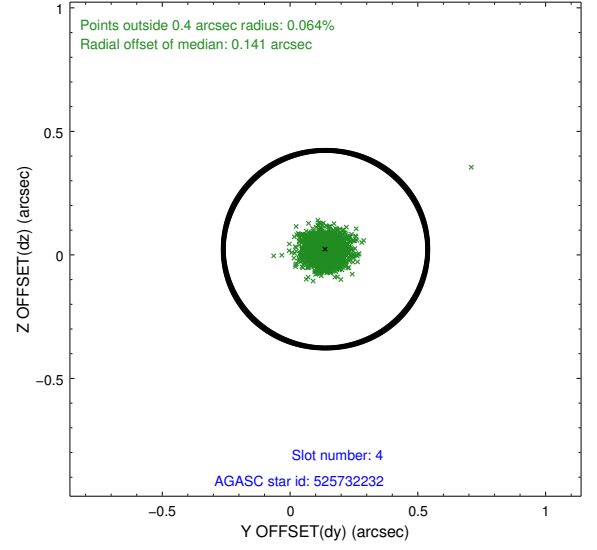
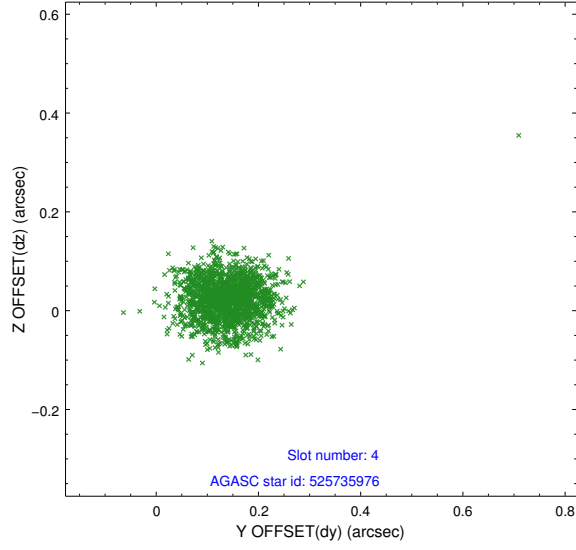
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	785	-0.005	-0.013	0.006	0.010	0.000000	0.000000	-753.88	-1724.84
1	FID	ACIS-S-4	7.21	784	0.001	0.006	0.005	0.009	0.000000	0.000000	2158.56	181.54
2	FID	ACIS-S-5	7.23	785	-0.026	0.016	0.006	0.010	0.000000	0.000000	-1804.14	177.58
3	GUIDE	525735976	8.87	1570	-0.039	-0.019	0.087	0.136	350.142956	58.277622	556.67	-2295.15
4	GUIDE	525732232	9.12	1571	0.139	0.023	0.068	0.105	351.669550	58.757012	1787.07	818.37
5	GUIDE	525737208	9.38	1571	-0.072	0.023	0.084	0.135	351.154109	59.407897	-403.44	2084.79
6	GUIDE	525606576	9.43	1572	-0.043	-0.135	0.095	0.151	349.543555	58.678895	-1210.06	-1804.64
7	GUIDE	525737880	9.77	1571	0.013	0.108	0.090	0.145	351.070641	59.208299	-88.19	1420.40

2.4 Star Slots

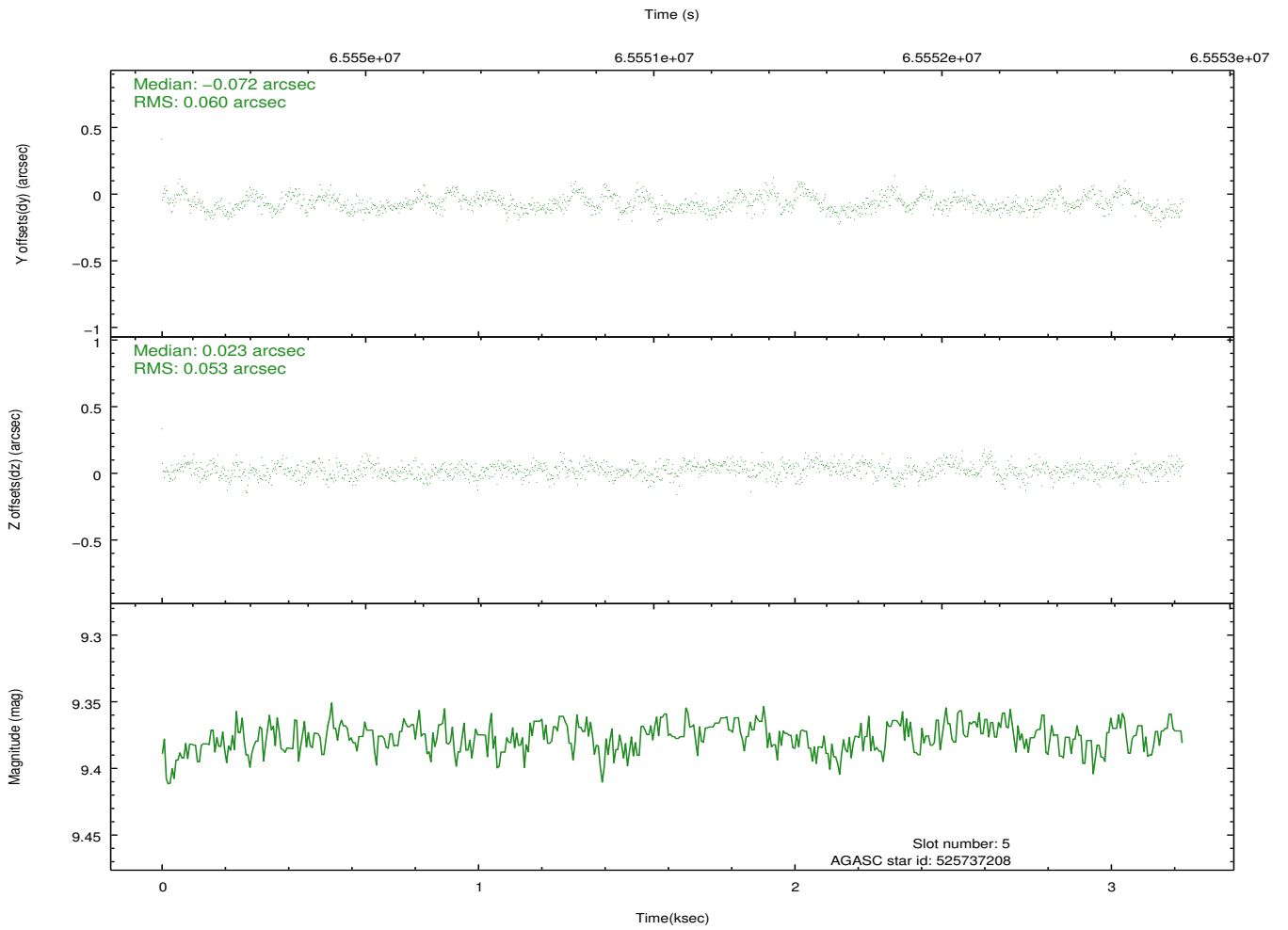
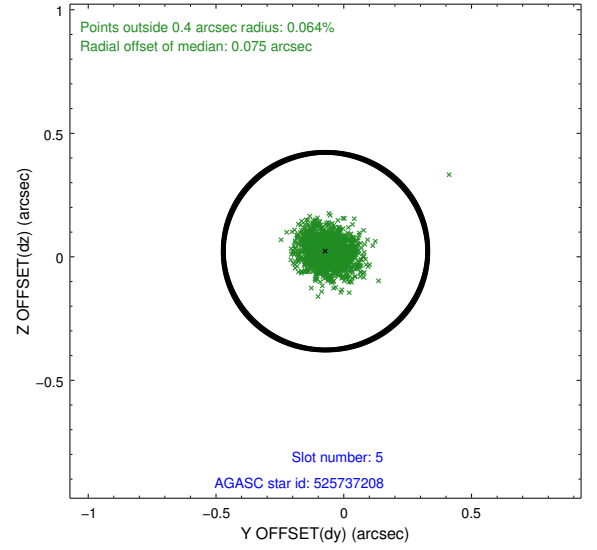
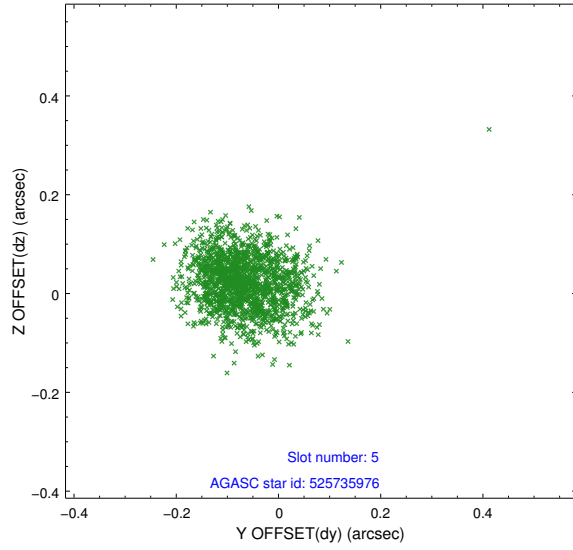
2.4.1 Slot 3



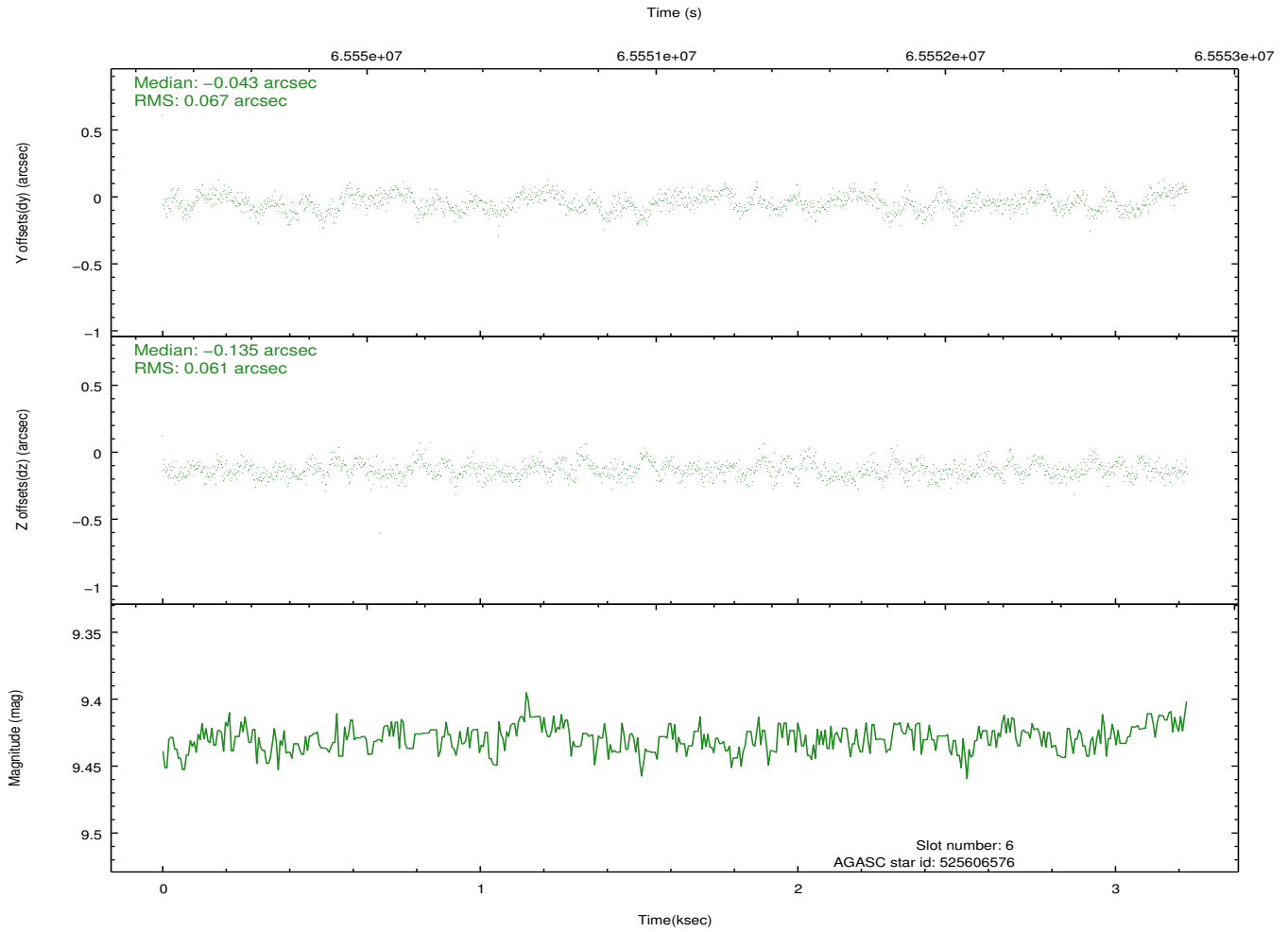
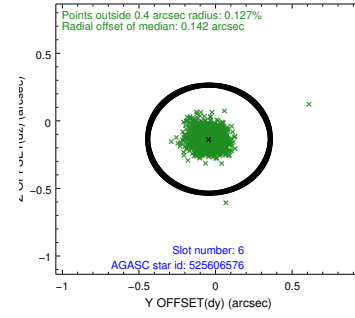
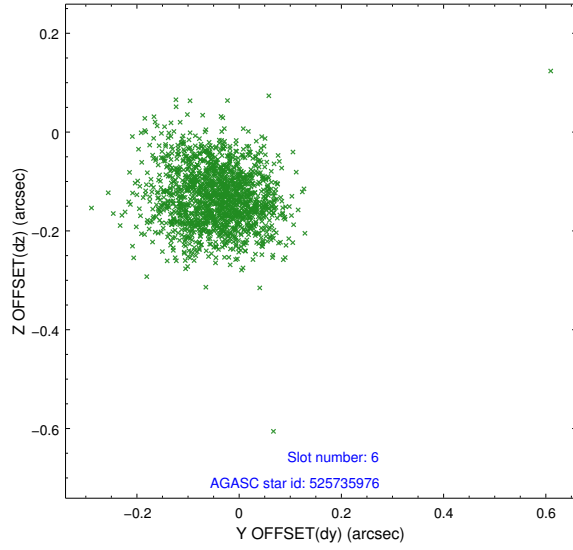
2.4.2 Slot 4



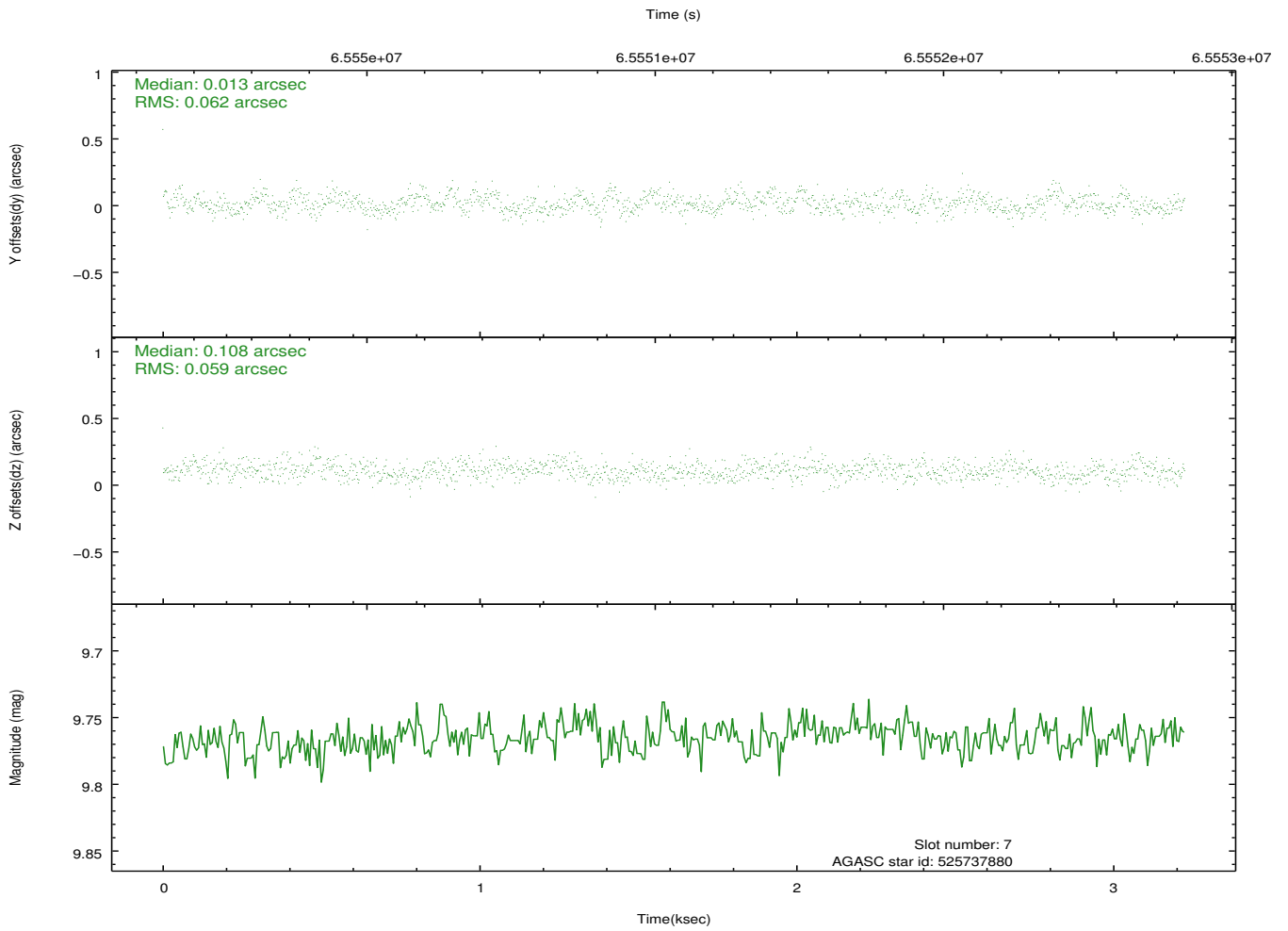
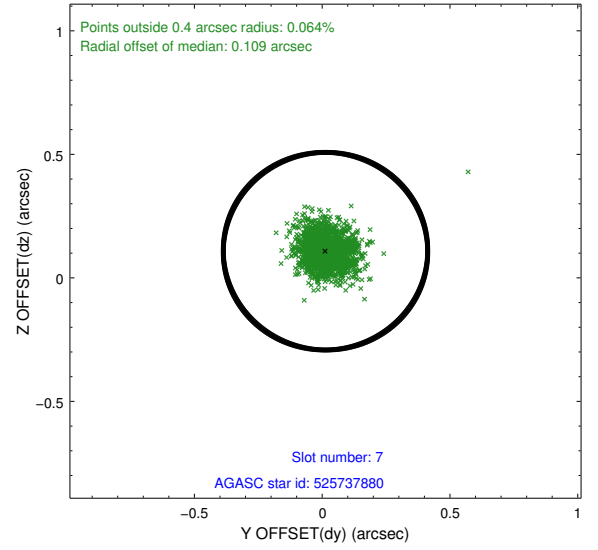
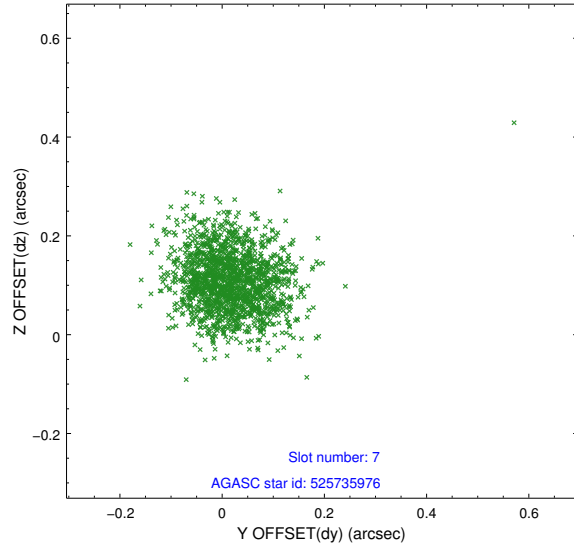
2.4.3 Slot 5



2.4.4 Slot 6

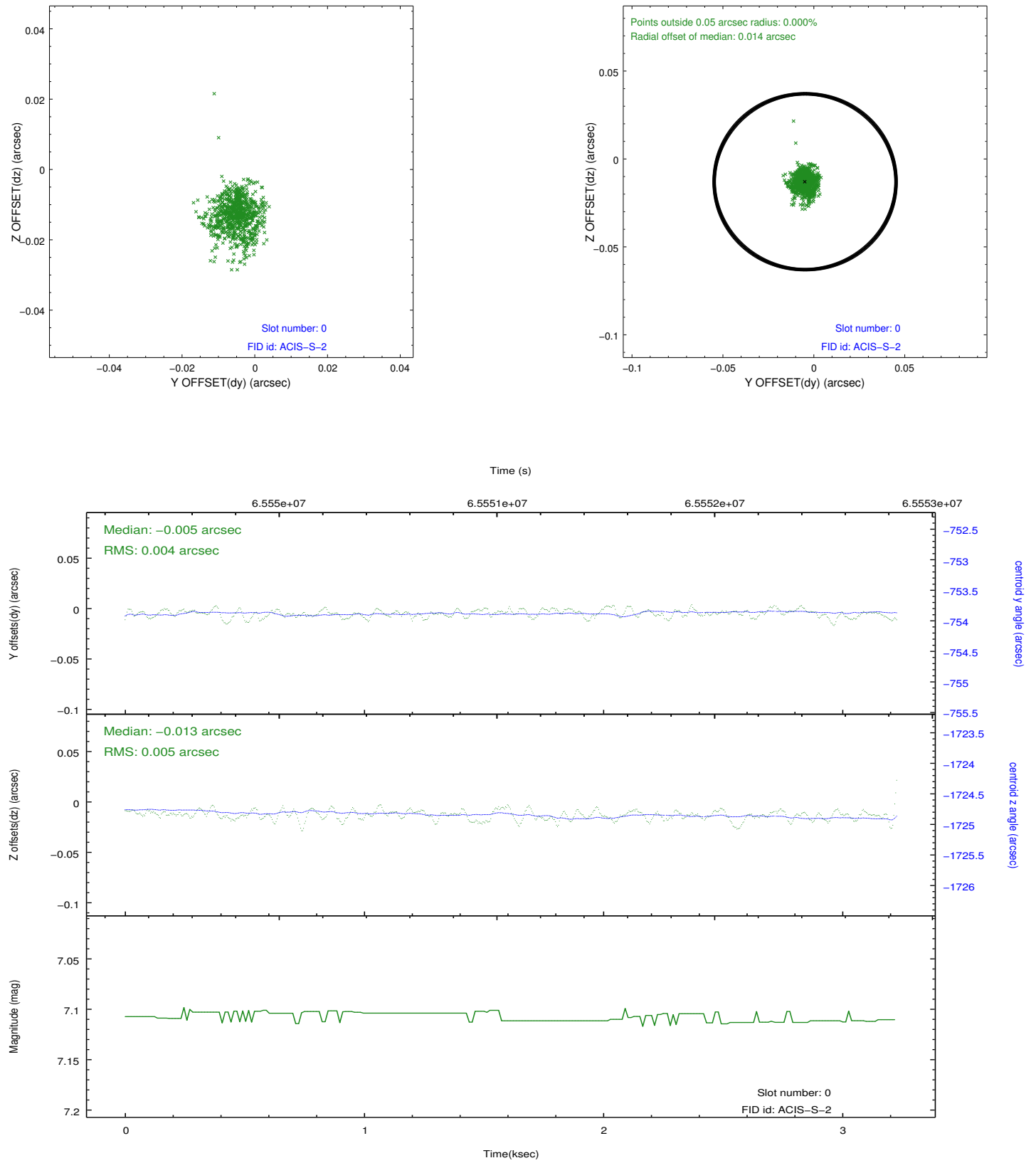


2.4.5 Slot 7

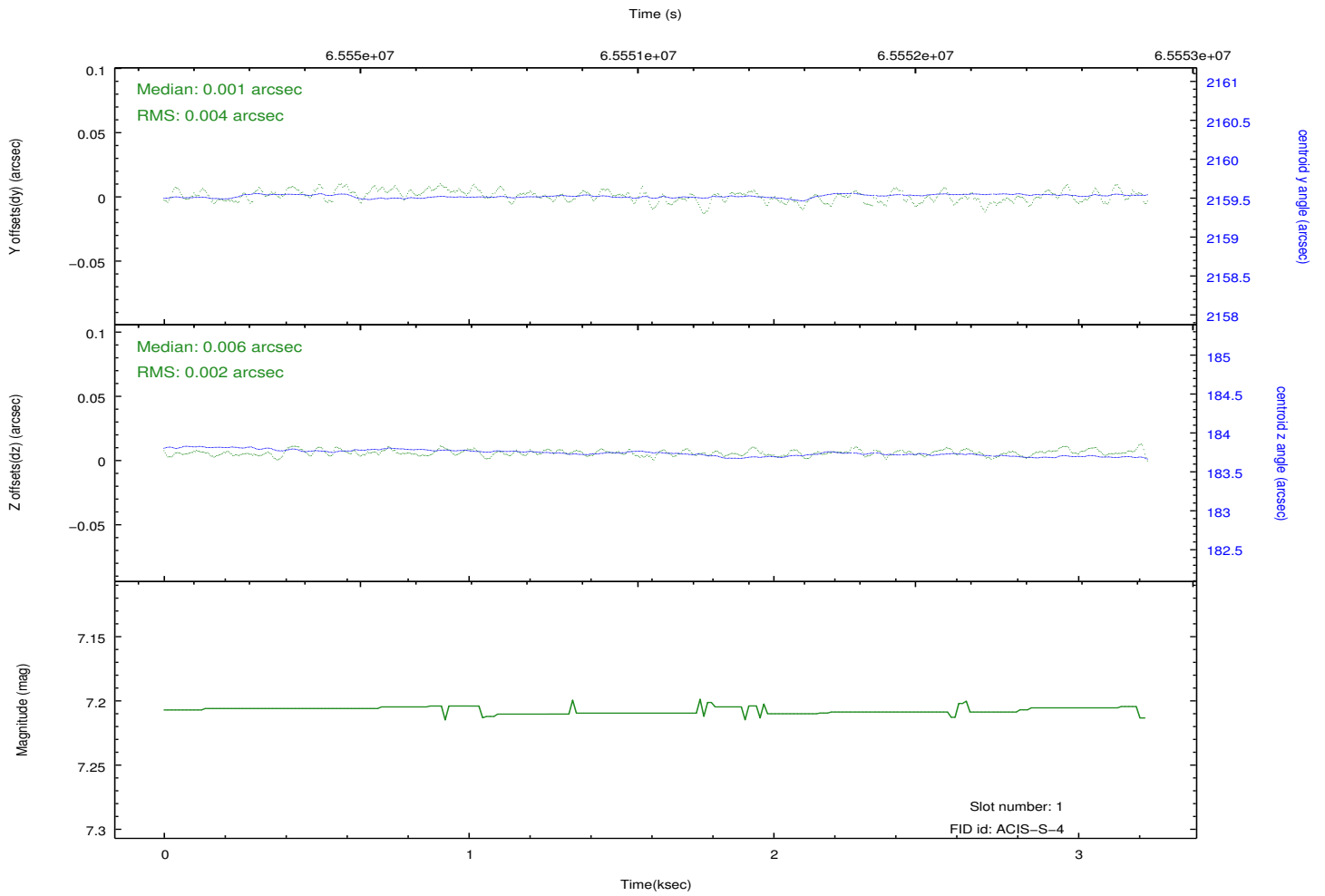
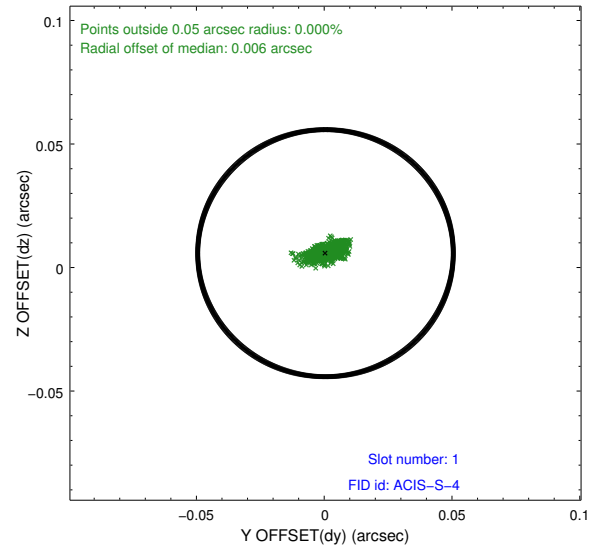
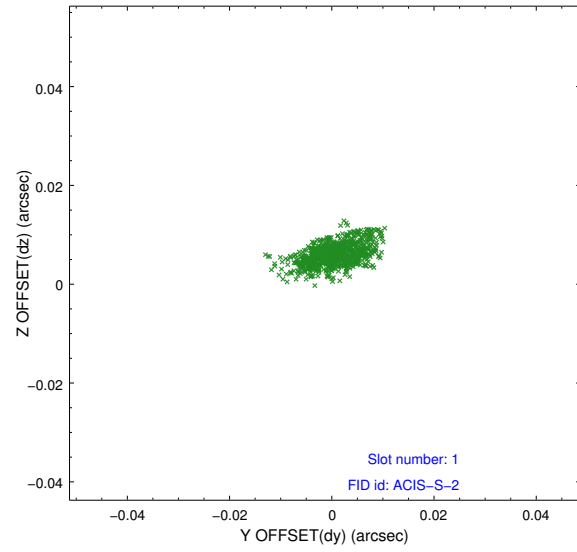


2.5 FID Slots

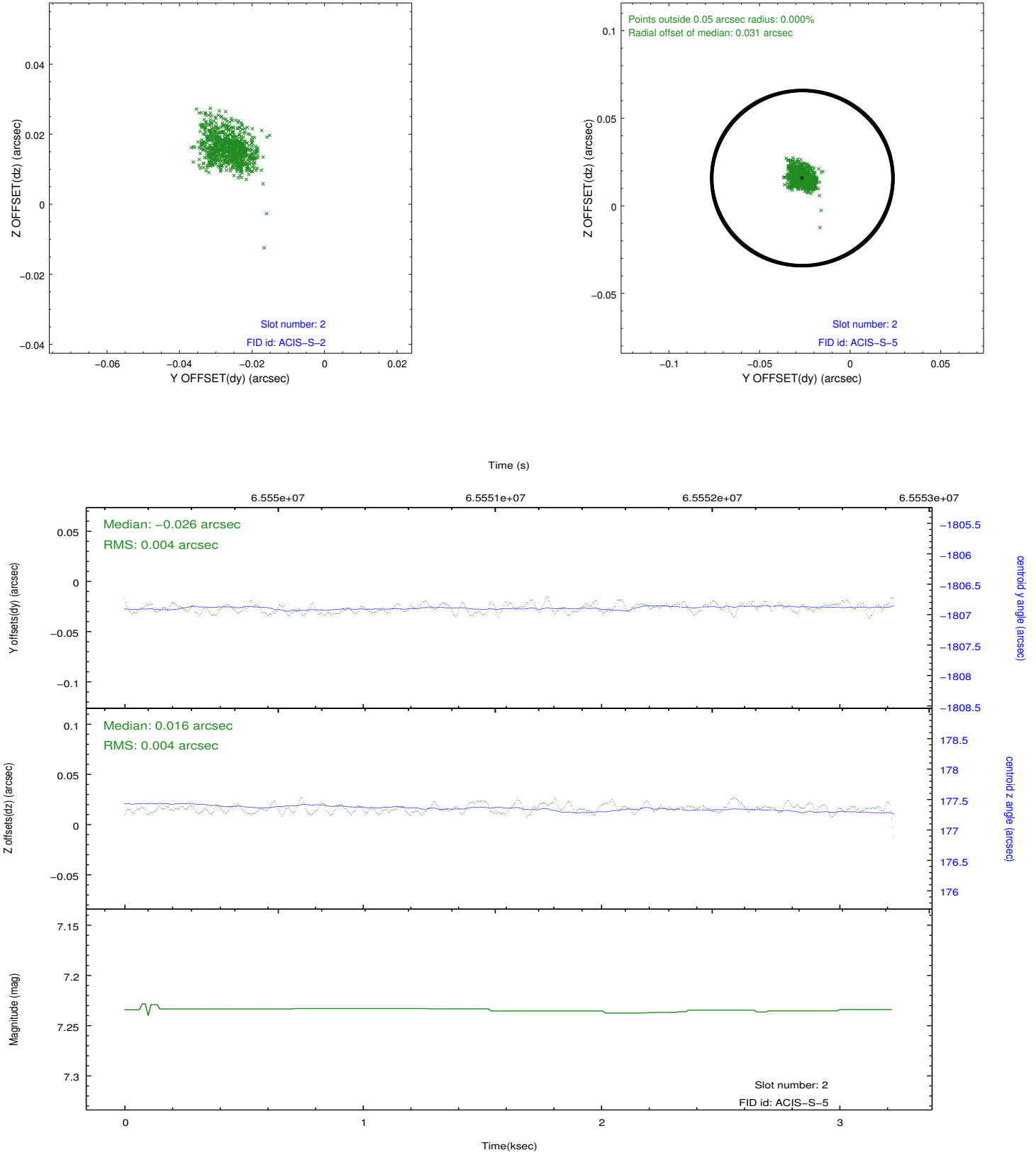
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

8.66 arcmin



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.388

A.2 Comments

Only chip S2 is used. Telemetry saturation.

===

Charge time for this ObsId remains at previous value of 1.388 ksec, although with the current processing the charge time would have been 1.380 ksec.

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The focal plane temperature is approximately -110C 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.