

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 14508 - L2 Version 2
Chandra X-Ray Center

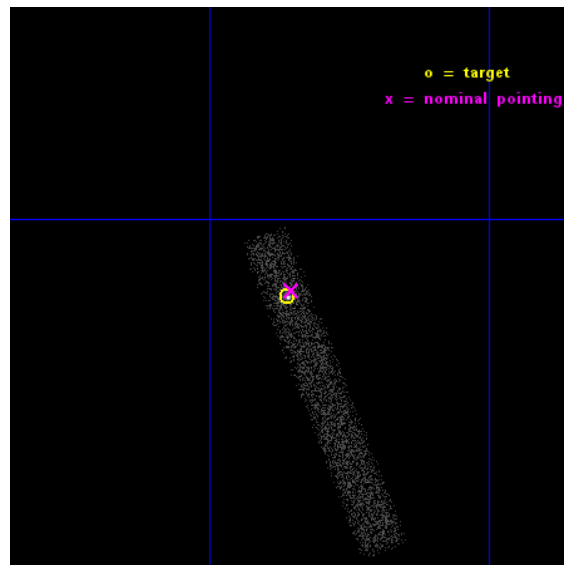
L2 Processing Date : Nov 30 2014

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1 Front

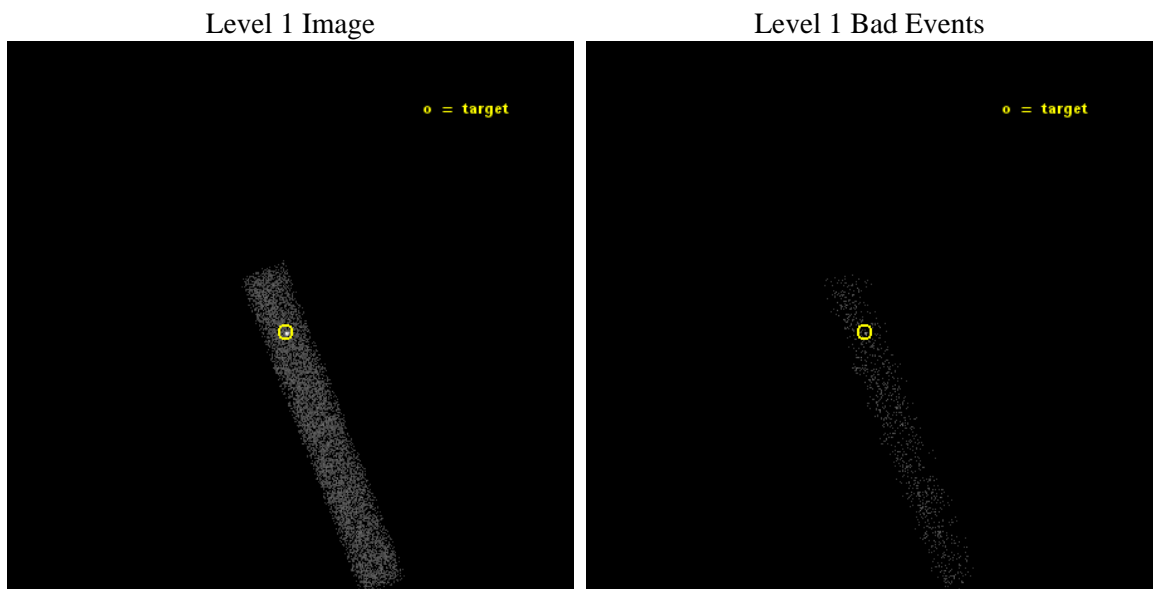
seq_num	702745	Sequence number
obs_id	14508	Observation id
title	ENERGY DEPENDENT X-RAY MICROLENSING AND THE STRUCTURE OF QUASARS	P
observer	Prof. Christopher Kochanek	Principal investigator
object	RXJ1131-1231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96318558875	Nominal RA [deg]
dec_nom	-12.530009136949	Nominal Dec [deg]
roll_nom	68.134037467975	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.784736037	Sum of GTIs [s]
livetime	9131.8562815502	Livetime [s]
ontime7	10068.784736037	Sum of GTIs [s]
l2events	7784	Number of level 2 events



2 OBI

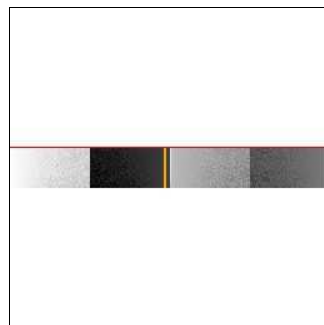
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10068.784736037	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	10068.784736037	Sum of GTIs [s]
date	2014-11-30T10:18:43	Date and time of file creation	l1events	12996	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

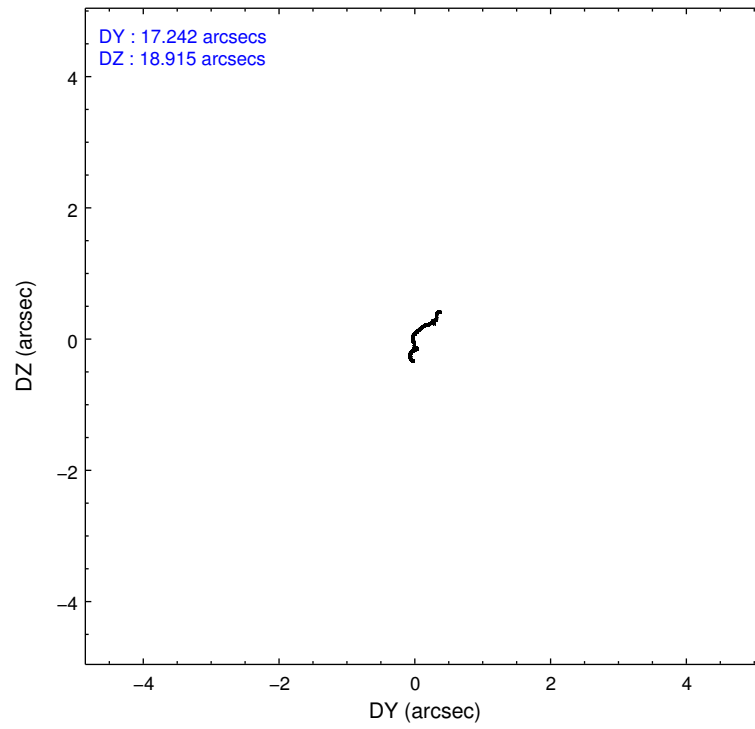
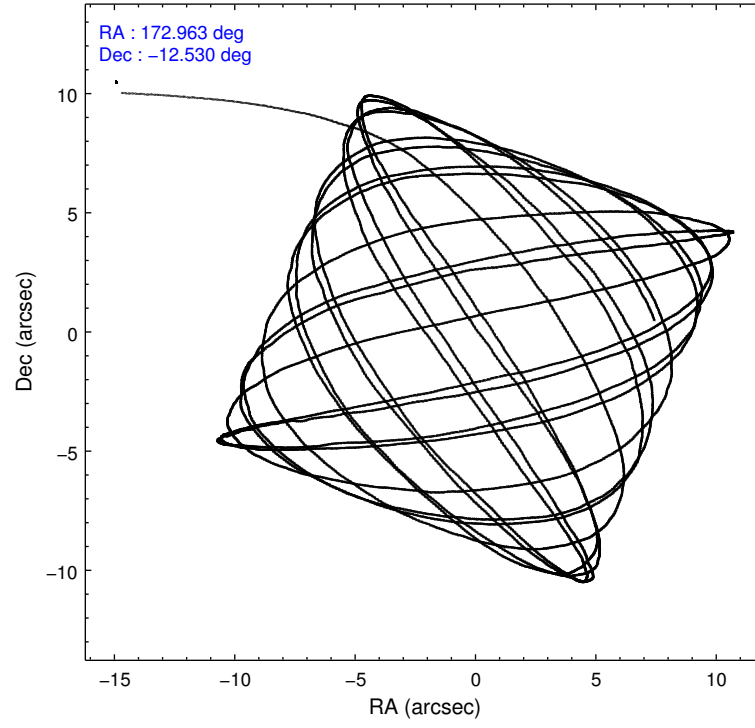
	ccd 7
level 1 events	12996
rejected events	5004
rejected %	38%

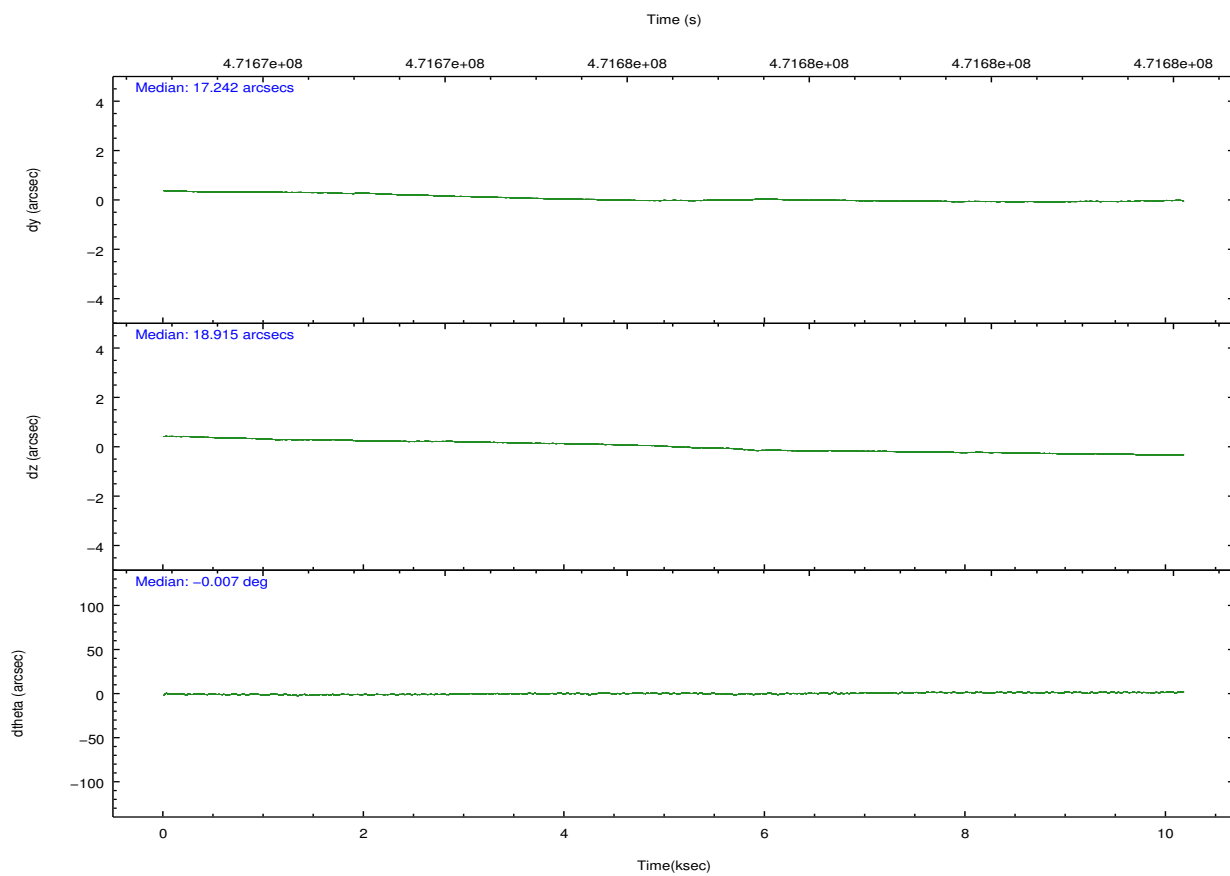
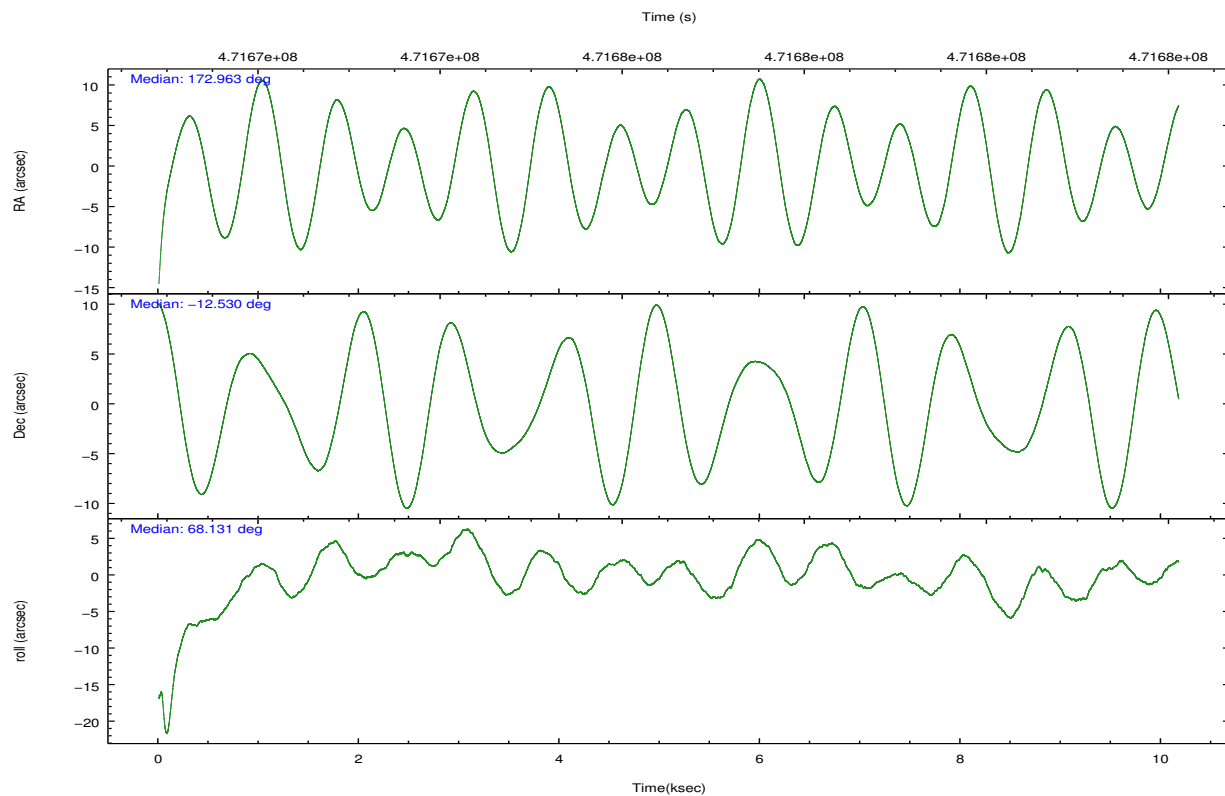
	ccd 7
grade 0 events	1429
	10%
grade 1 events	24
	0%
grade 2 events	1743
	13%
grade 3 events	1025
	7%
grade 4 events	944
	7%
grade 5 events	1014
	7%
grade 6 events	2851
	21%
grade 7 events	3966
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	172.967540	172.9631855887512	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-12.557051	-12.5300091369494	Subarray start row	449	449
[deg] Pointing Roll	67.978349	68.13403746797482	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	471671607.184000	471670801.53641			
Observation start date	2012-12-12T03:52:20	2012-12-12T03:40:01			
[s] Observation end time (MET)	471681607.184000	471682135.98702			
Observation end date	2012-12-12T06:39:00	2012-12-12T06:48:55			
Read mode	TIMED	TIMED			

2.3 Aspect



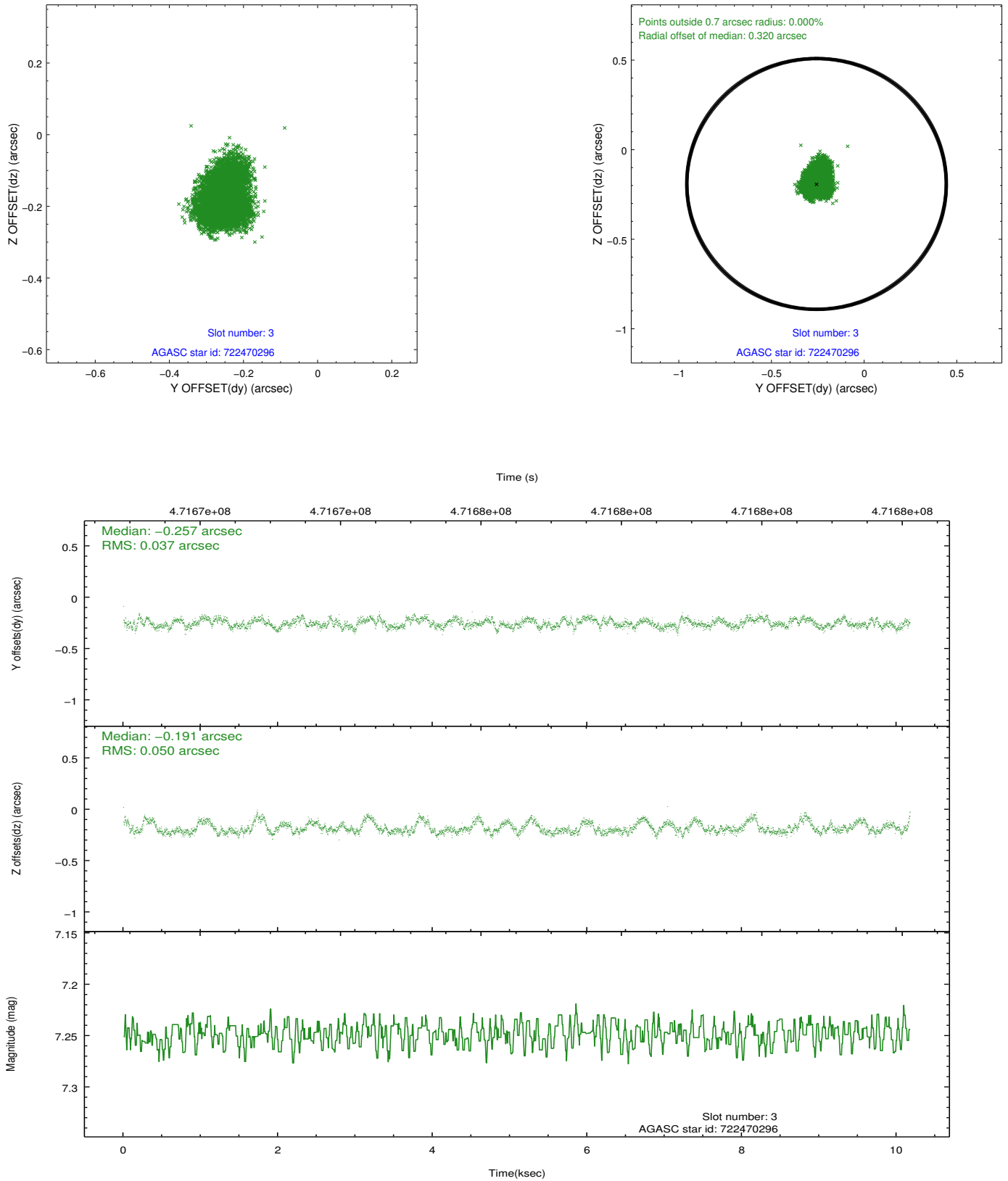


Slot Statistics

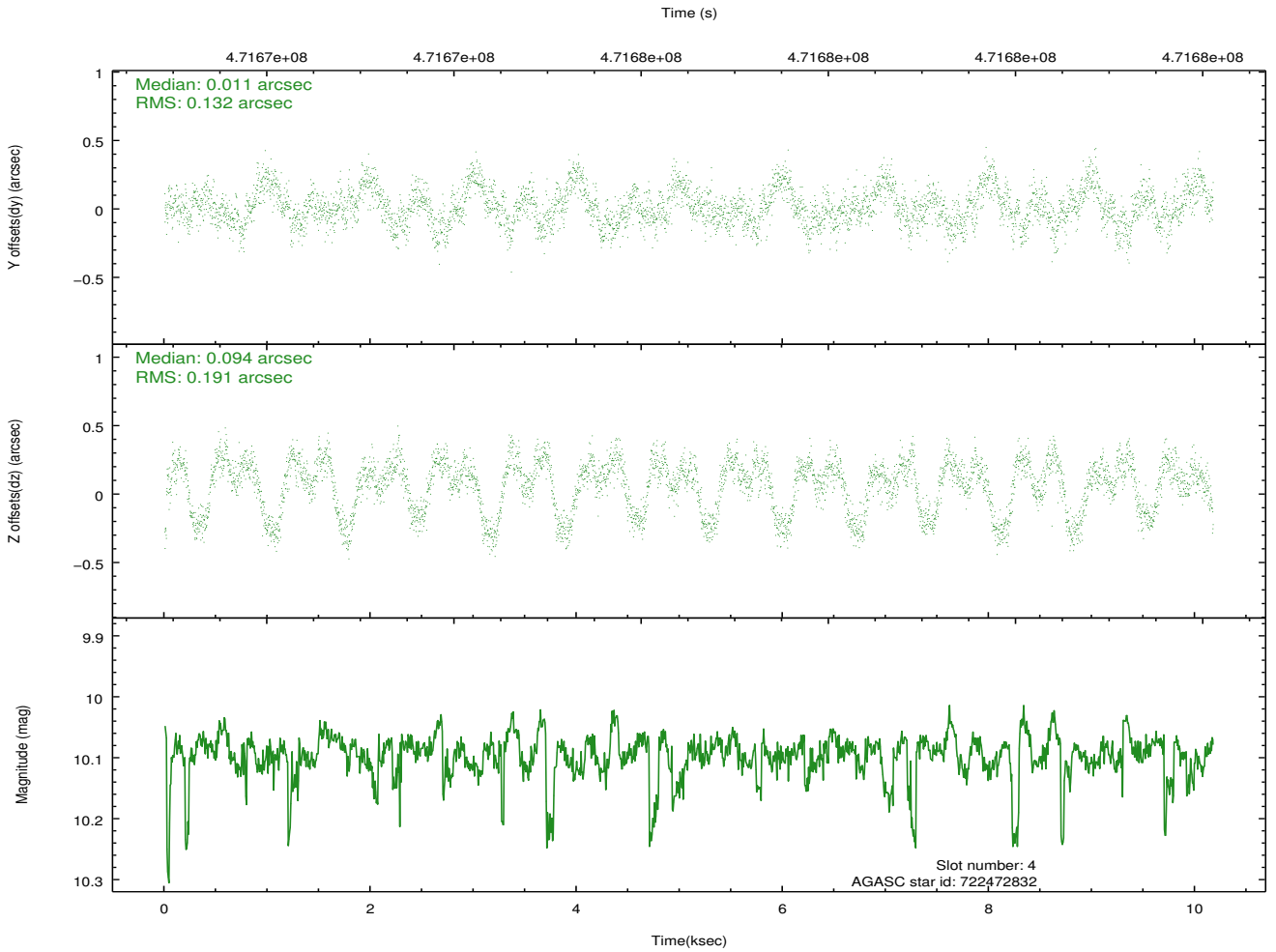
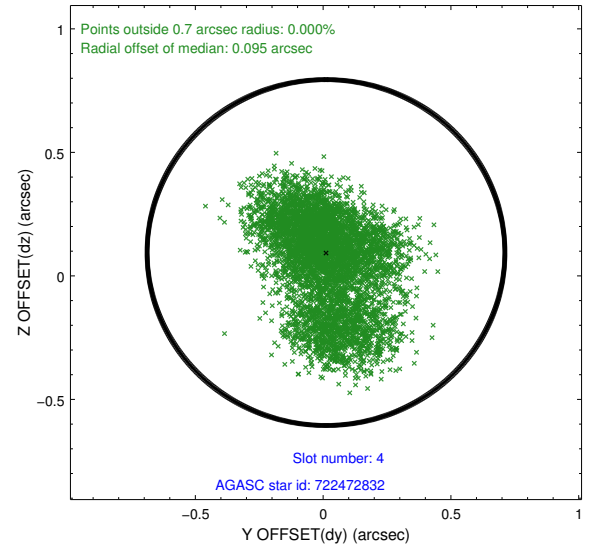
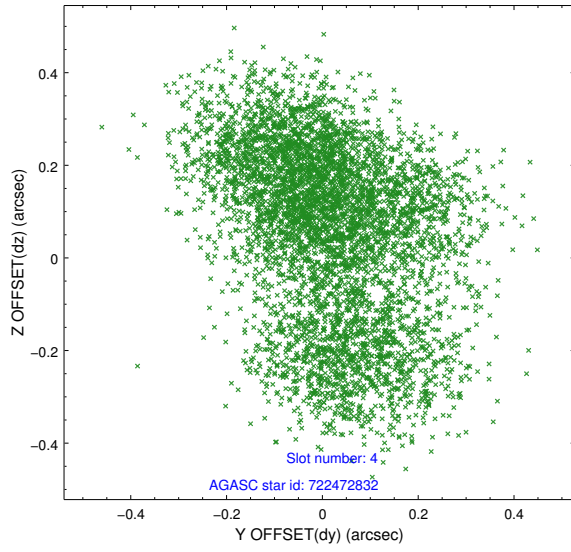
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	2481	0.088	-0.024	0.007	0.012	0.000000	0.000000	925.81	-1735.99
1	FID		ACIS-S-5	7.03	2481	-0.150	0.065	0.010	0.019	0.000000	0.000000	-1823.17	161.06
2	FID		ACIS-S-6	7.13	2481	0.040	-0.030	0.012	0.023	0.000000	0.000000	390.71	805.56
3	GUIDE	used	722470296	7.25	4962	-0.257	-0.191	0.065	0.110	172.921689	-12.381367	525.75	386.87
4	GUIDE	used	722472832	10.09	4942	0.011	0.094	0.250	0.406	173.078970	-12.015349	1955.15	367.77
5	GUIDE	used	722473176	9.45	4941	-0.090	-0.234	0.129	0.207	172.599746	-12.066793	1149.95	1861.98
6	GUIDE	used	722871728	9.66	4916	0.071	0.329	0.172	0.286	173.202235	-12.568355	271.62	-778.91
7	GUIDE	used	722873464	7.32	4962	0.258	0.029	0.093	0.151	172.661543	-13.050266	-2049.02	328.10

2.4 Star Slots

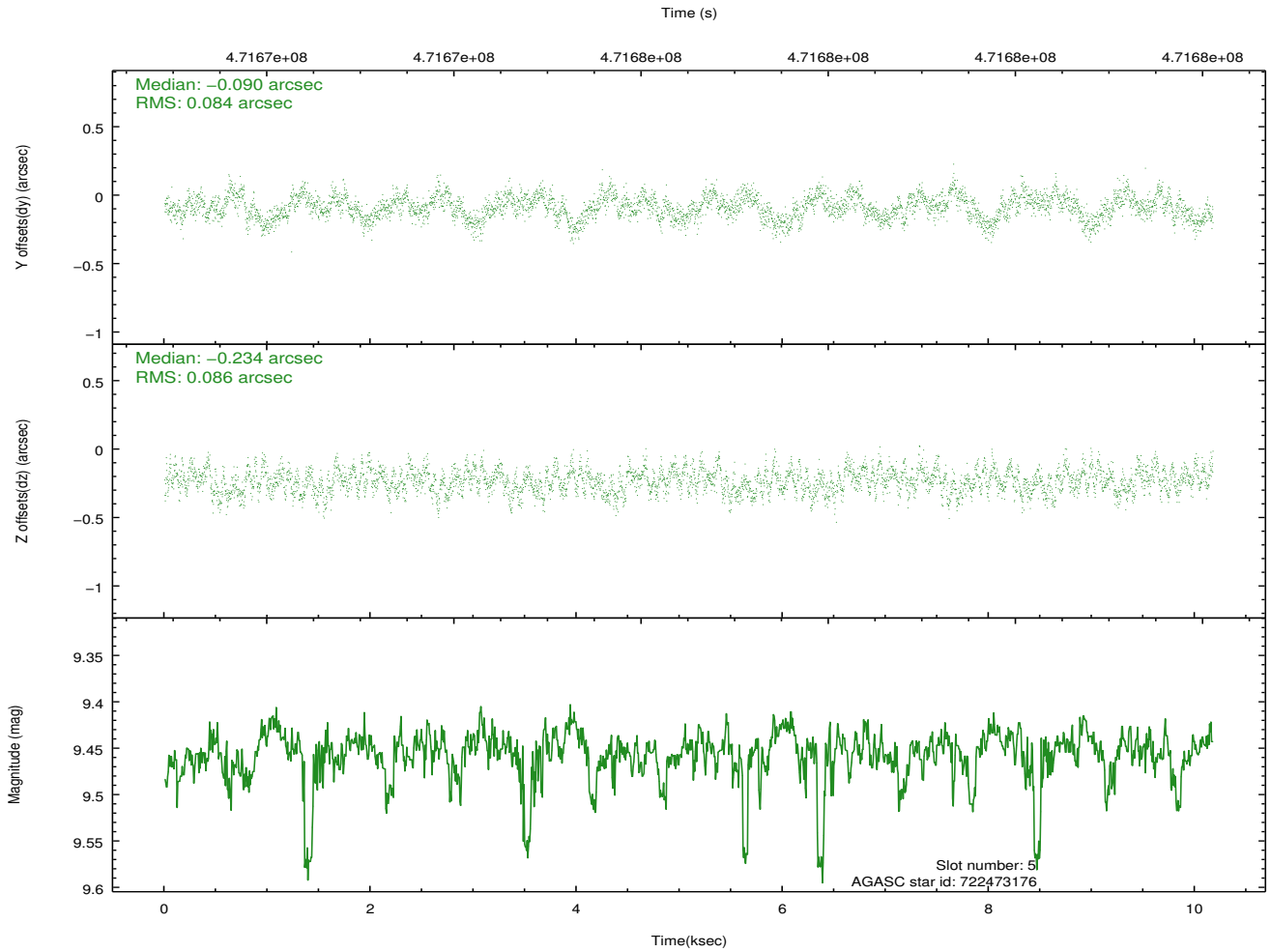
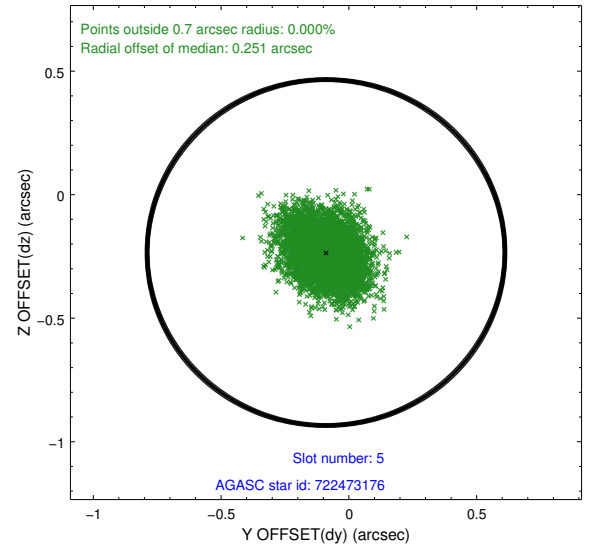
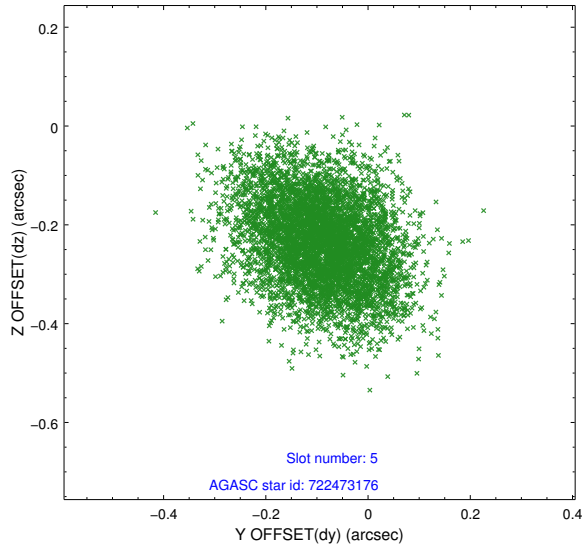
2.4.1 Slot 3



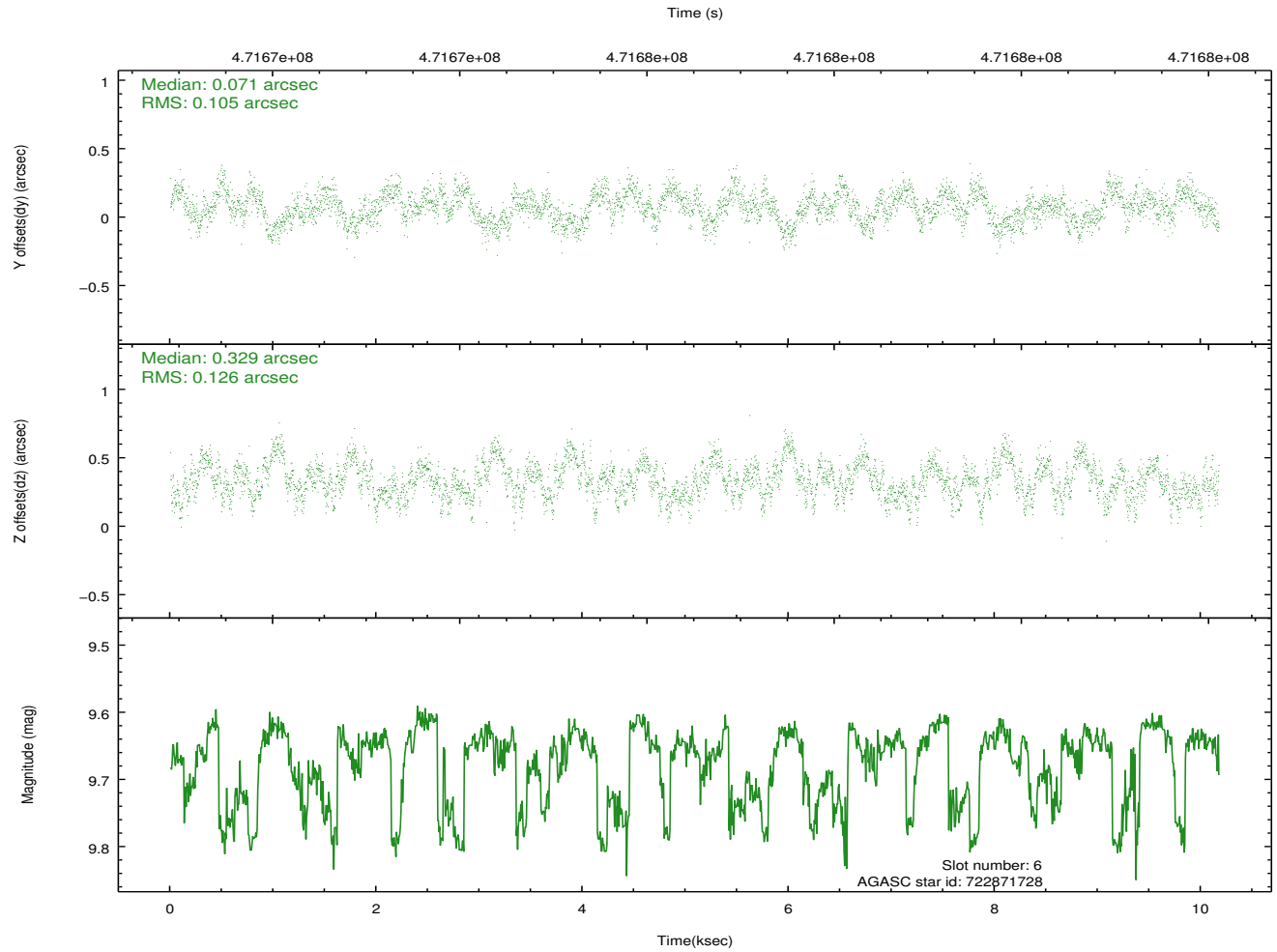
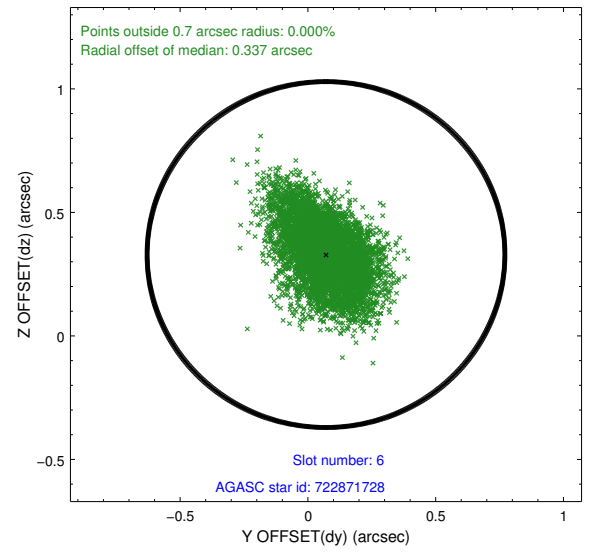
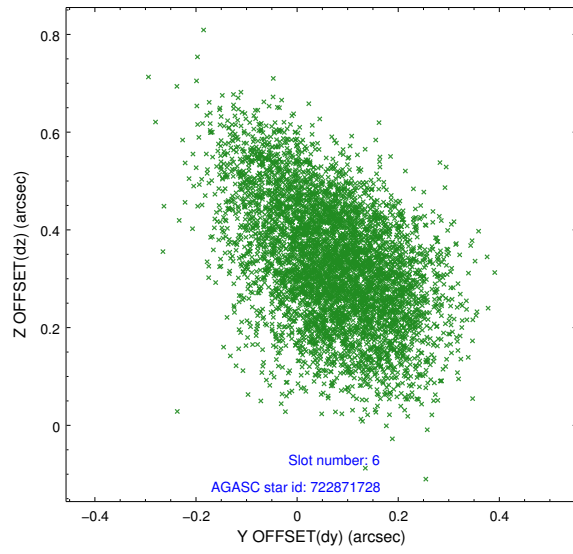
2.4.2 Slot 4



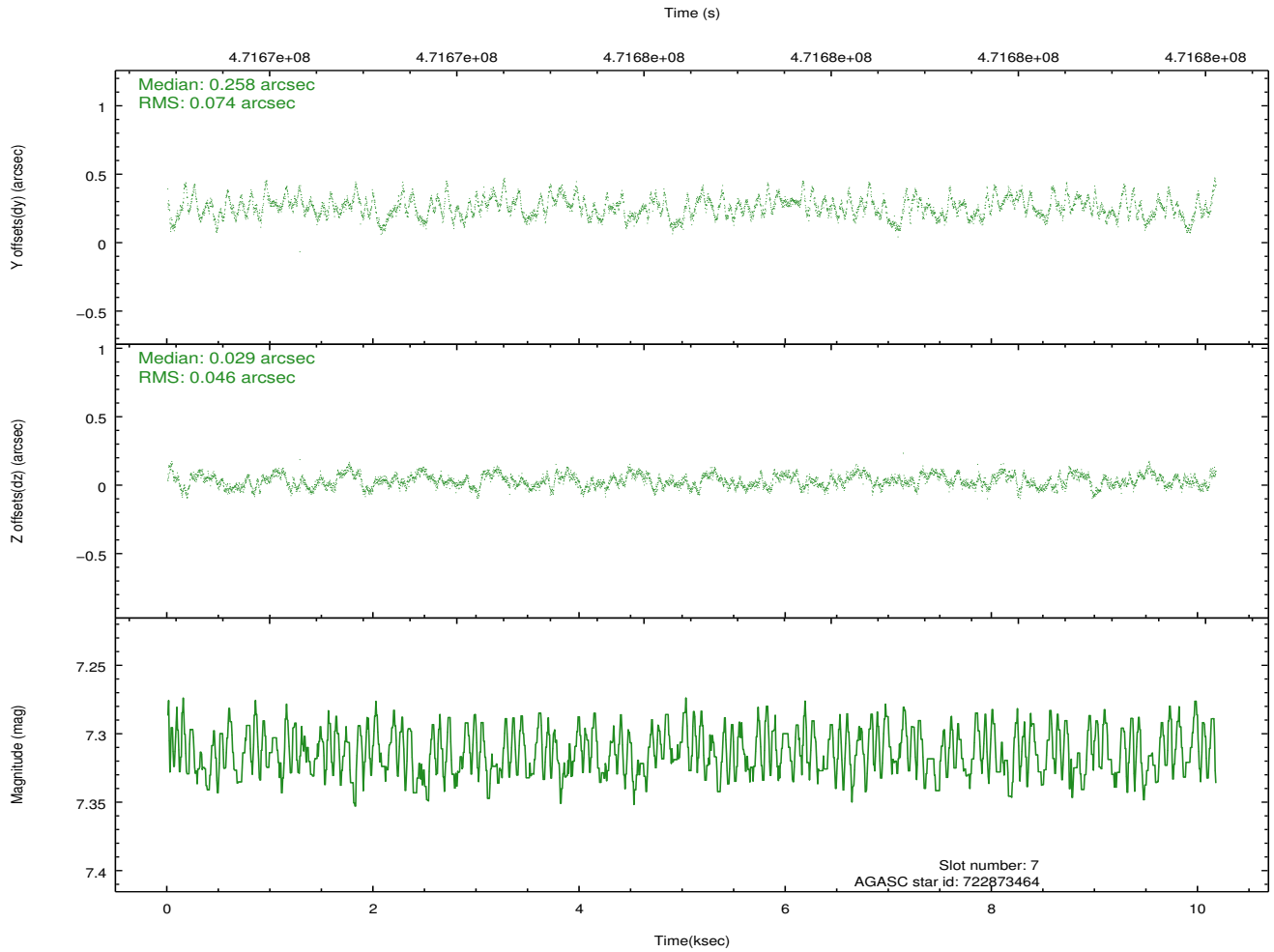
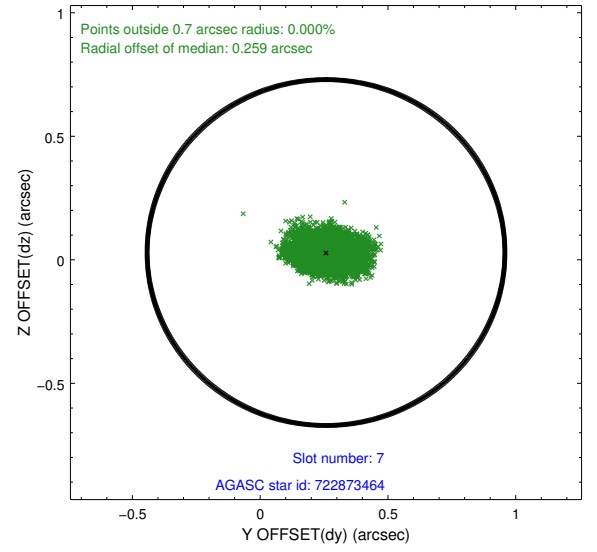
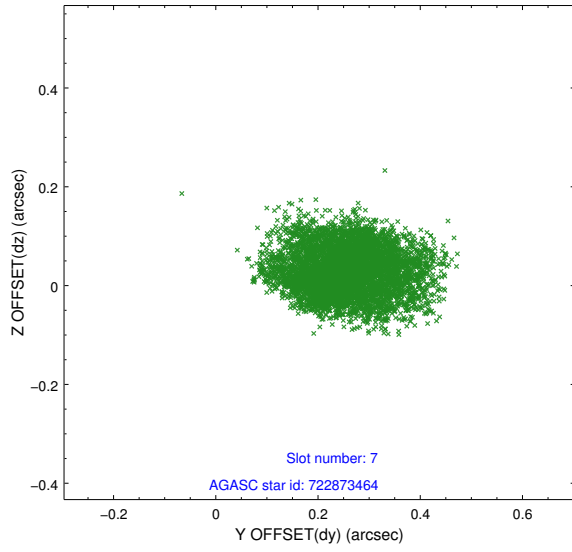
2.4.3 Slot 5



2.4.4 Slot 6

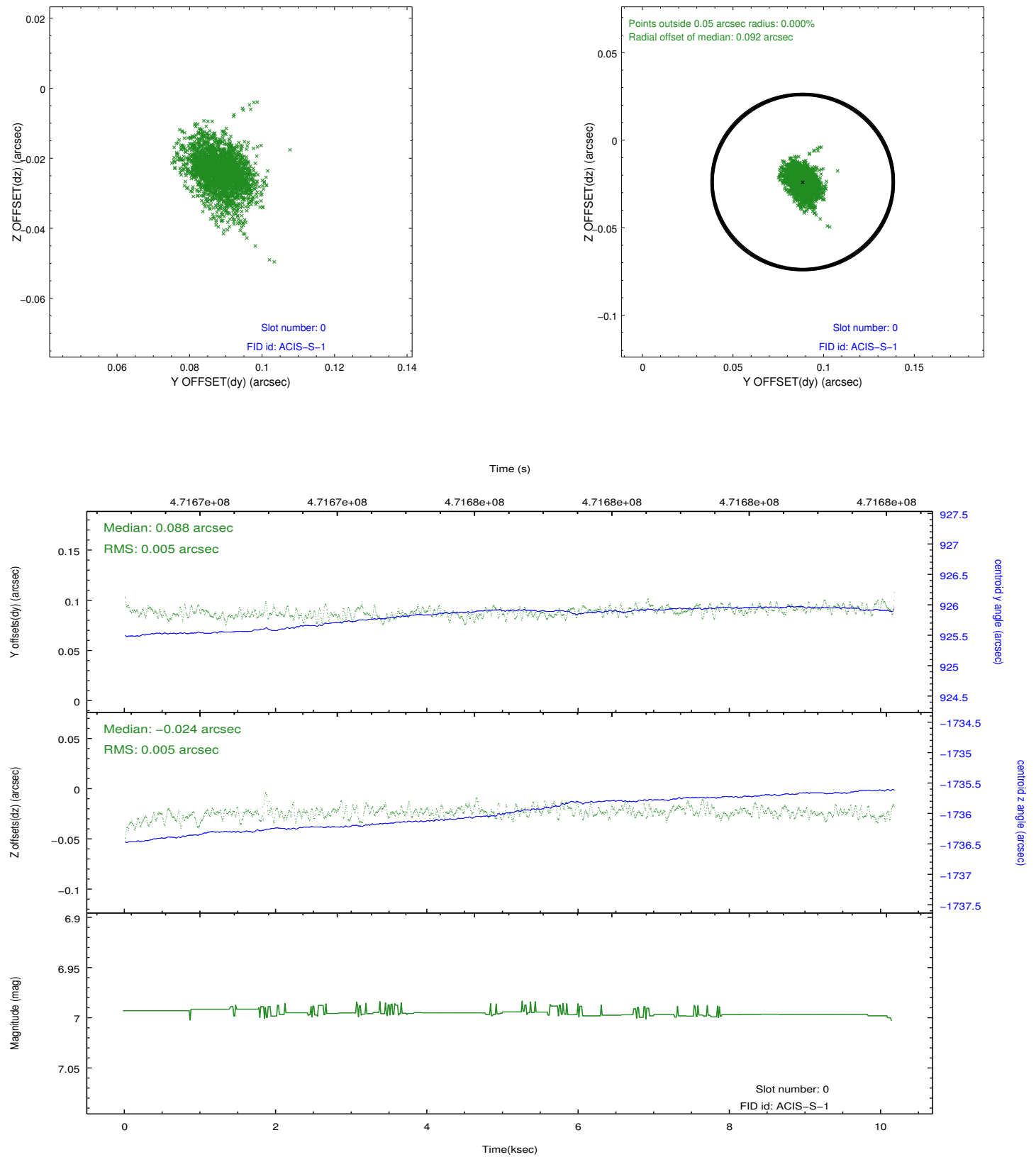


2.4.5 Slot 7

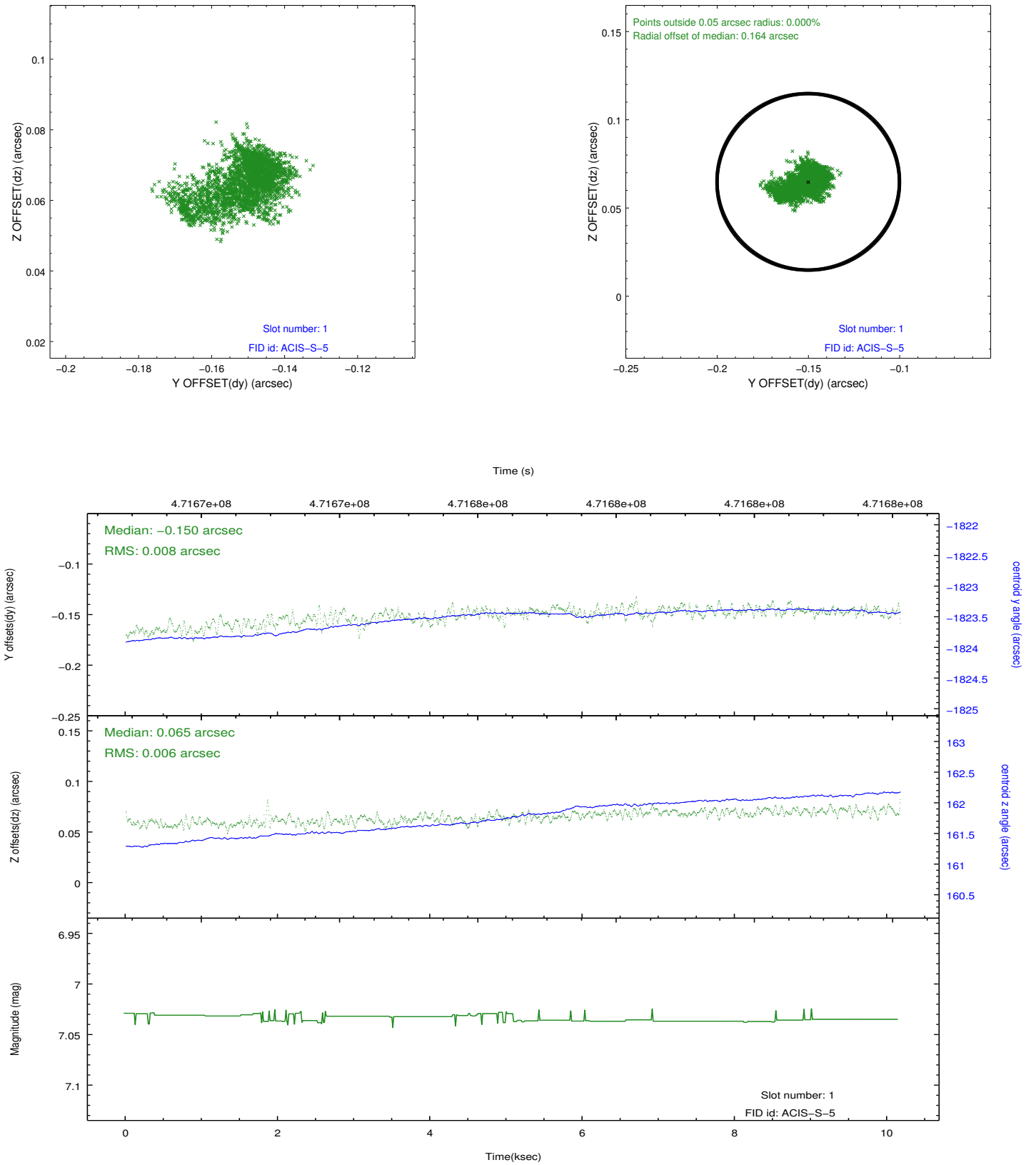


2.5 FID Slots

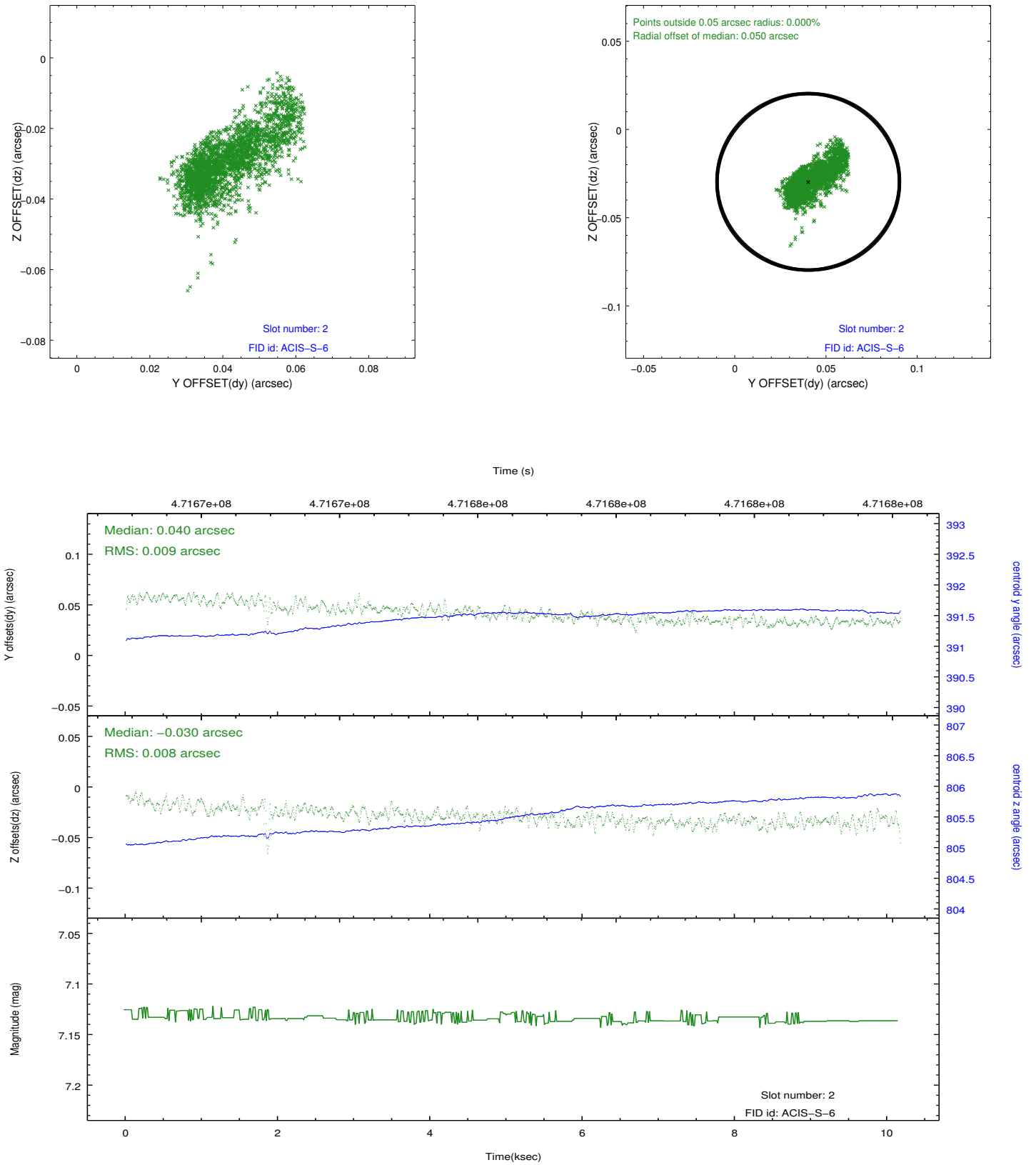
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068784736037

A.2 Comments

Joint proposal with HST.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.