

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15342 - L2 Version 2
Chandra X-Ray Center

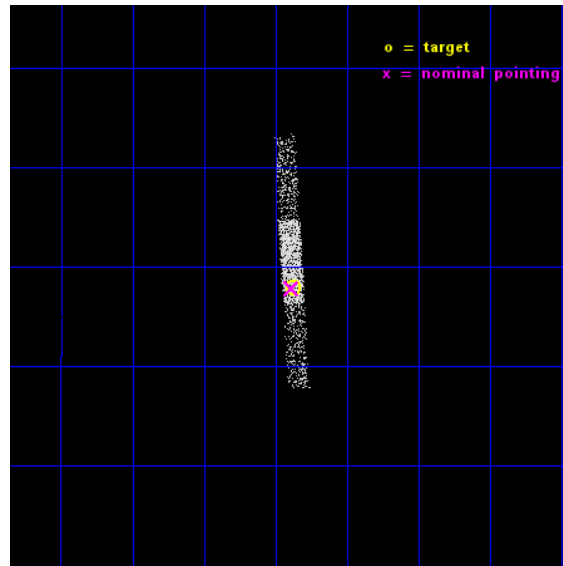
L2 Processing Date : Dec 2 2014

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1 Front

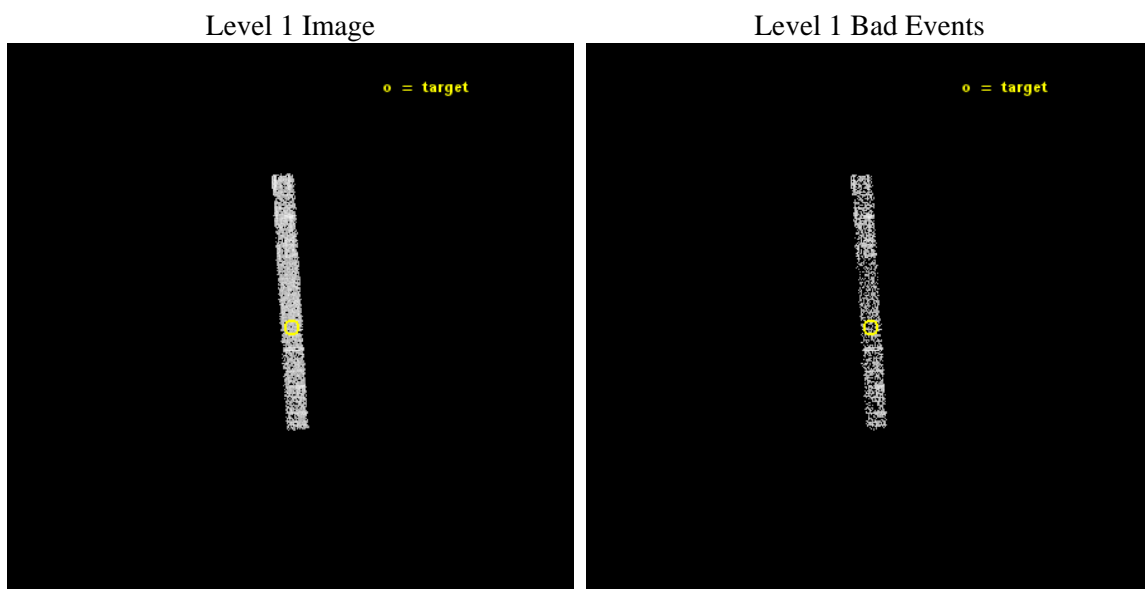
seq_num	702902	Sequence number
obs_id	15342	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0827+0327	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.844583	Observer's specified target RA [deg]
dec_targ	3.465528	Observer's specified target Dec [deg]
ra_nom	126.8469777186	Nominal RA [deg]
dec_nom	3.4639802143696	Nominal Dec [deg]
roll_nom	266.49077893573	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2594.6518880129	Sum of GTIs [s]
livetime	2481.4956847866	Livetime [s]
ontime6	2594.6108480096	Sum of GTIs [s]
ontime7	2594.6518880129	Sum of GTIs [s]
ontime8	2594.5698080063	Sum of GTIs [s]
l2events	2552	Number of level 2 events



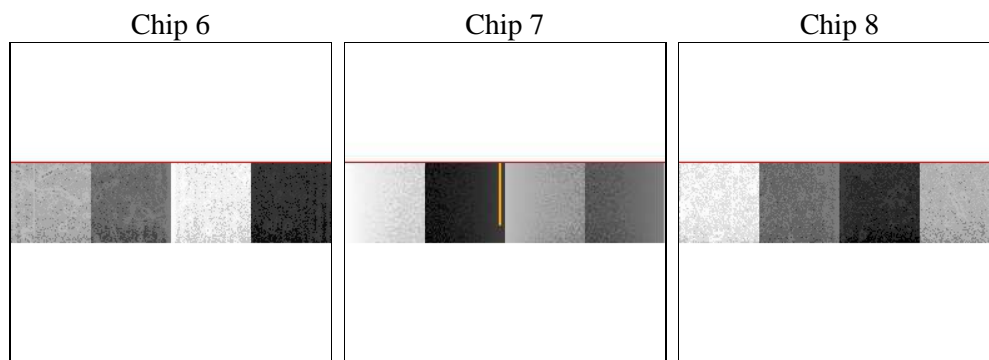
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2594.6518880129	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	2594.6108480096	Sum of GTIs [s]
date	2014-12-02T07:17:37	Date and time of file creation	ontime7	2594.6518880129	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2594.5698080063	Sum of GTIs [s]
			l1events	11916	Number of level 1 events

2.1.4 Events

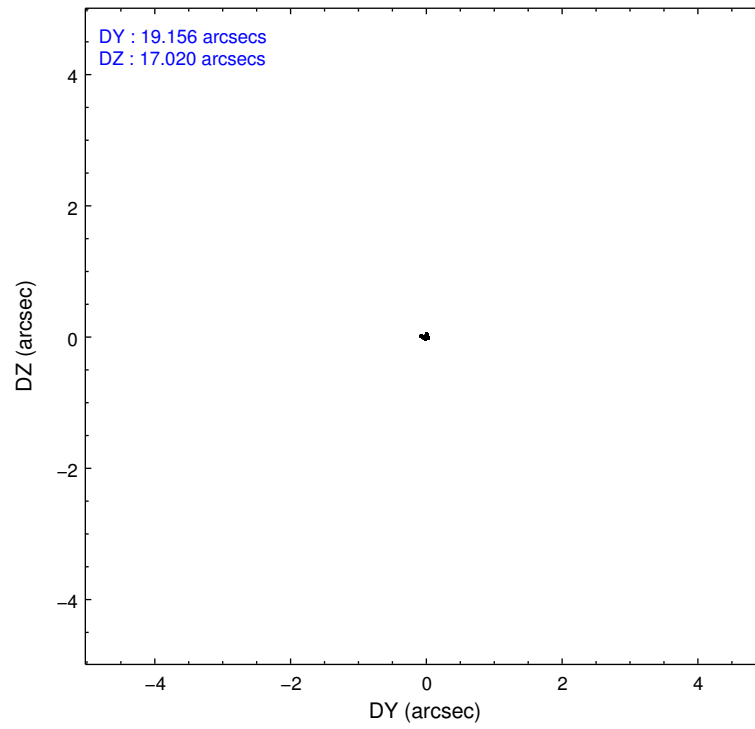
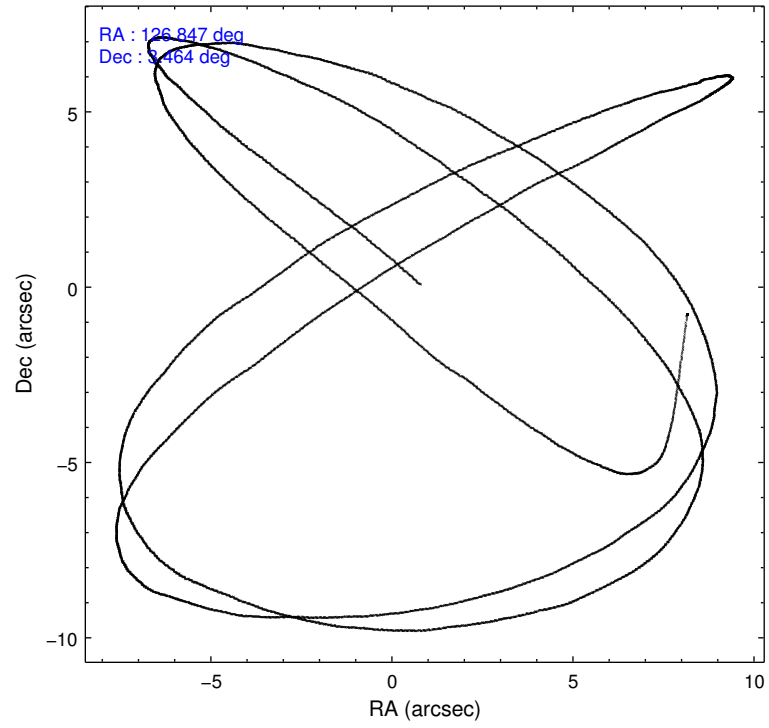
	ccd 6	ccd 7	ccd 8
level 1 events	3473	3728	4715
rejected events	3014	1844	3556
rejected %	86%	49%	75%

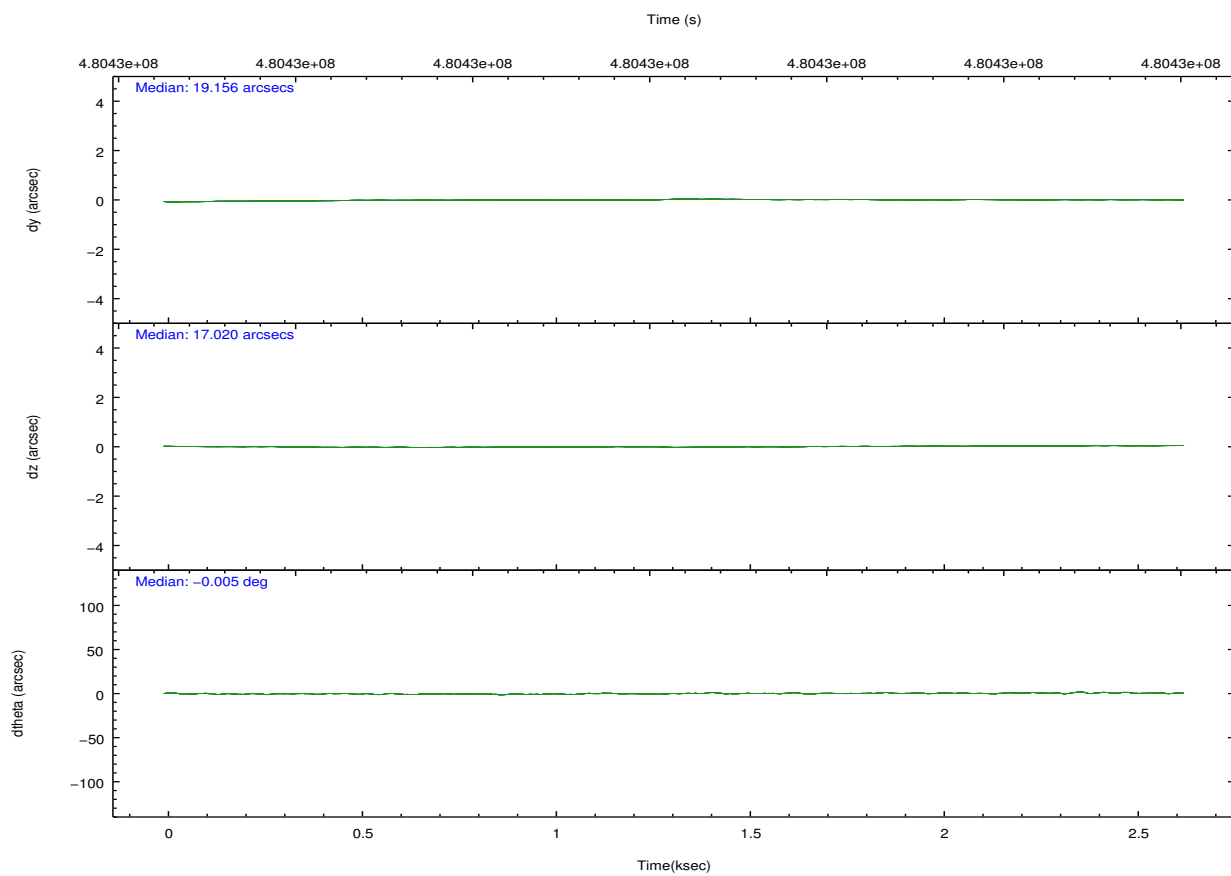
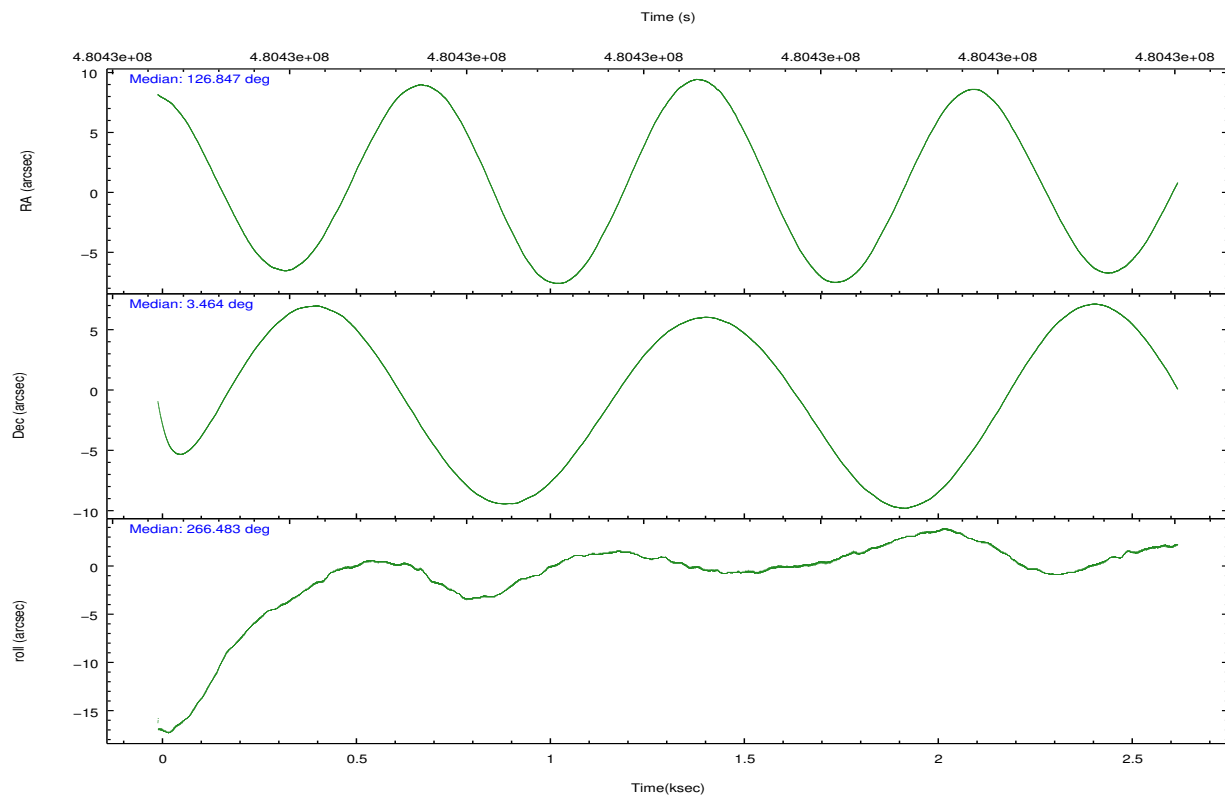
	ccd 6	ccd 7	ccd 8
grade 0 events	147	186	250
	4%	4%	5%
grade 1 events	1	6	2
	0%	0%	0%
grade 2 events	73	409	265
	2%	10%	5%
grade 3 events	84	208	131
	2%	5%	2%
grade 4 events	76	197	141
	2%	5%	2%
grade 5 events	154	420	216
	4%	11%	4%
grade 6 events	79	887	374
	2%	23%	7%
grade 7 events	2859	1415	3336
	82%	37%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	126.834483	126.8469777185995	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	3.488051	3.463980214369605	Subarray start row	385	385
[deg] Pointing Roll	266.334922	266.4907789357317	Subarray row count	256	256
[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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	480428373.184000	480426883.98406			
Observation start date	2013-03-23T12:18:26	2013-03-23T11:54:43			
[s] Observation end time (MET)	480430873.184000	480431345.8093			
Observation end date	2013-03-23T13:00:06	2013-03-23T13:09:05			
Read mode	TIMED	TIMED			

2.3 Aspect



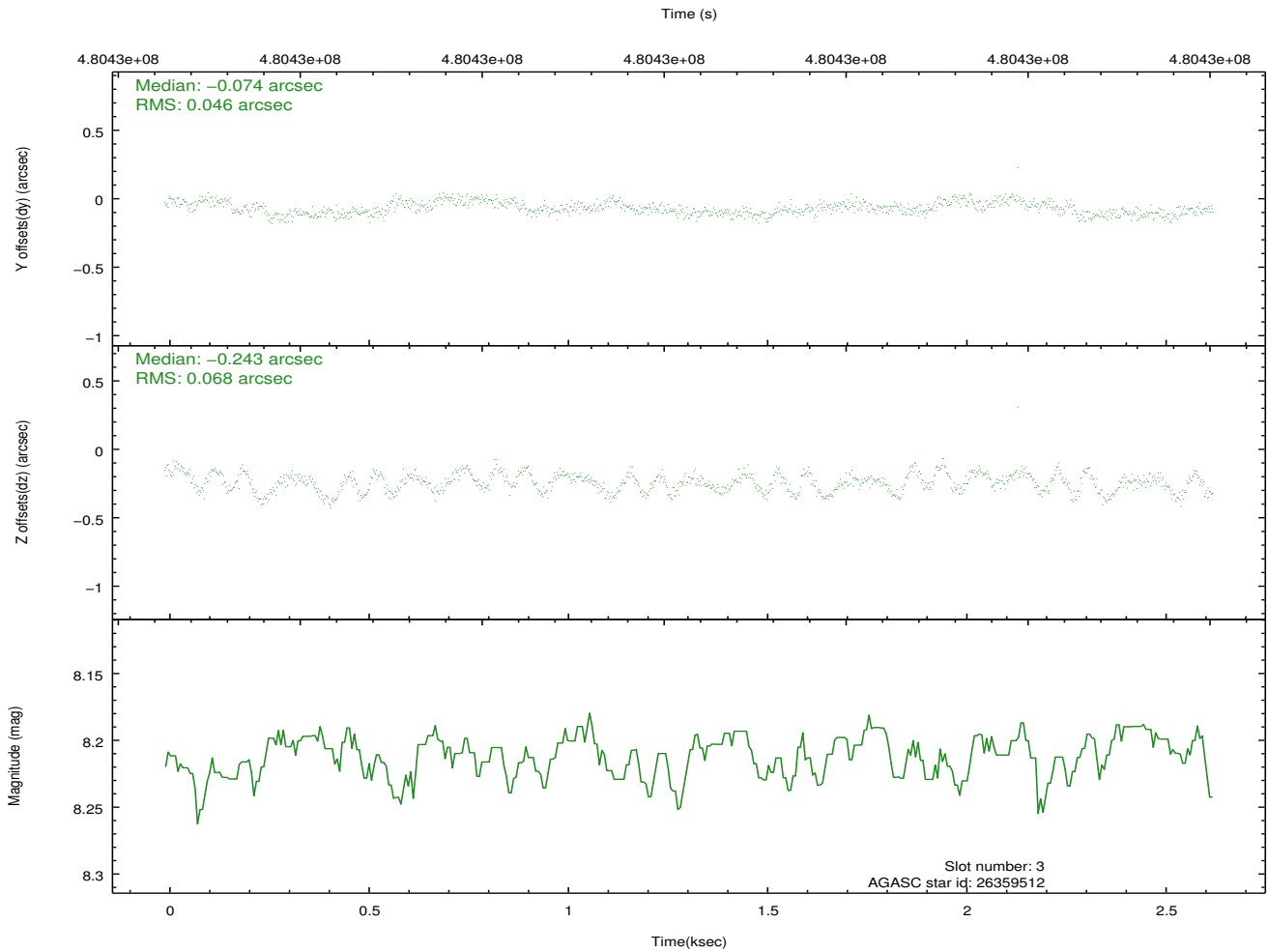
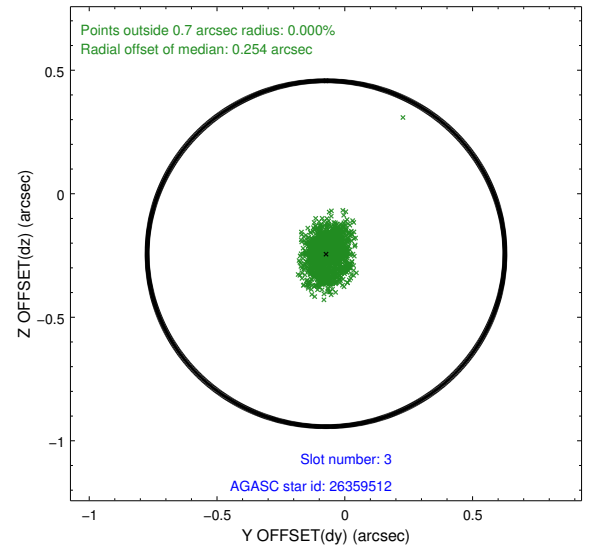
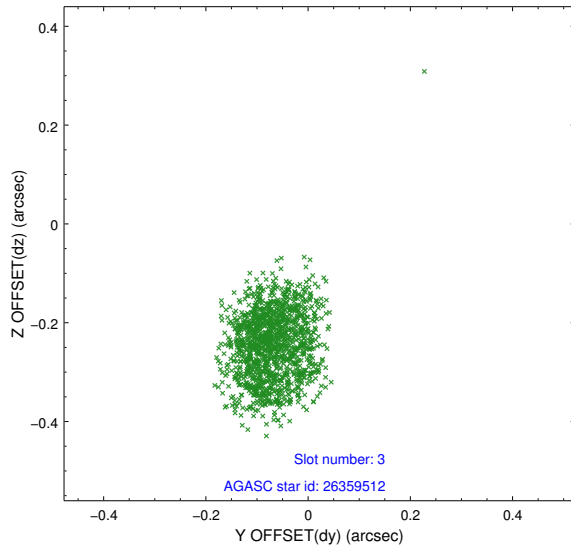


Slot Statistics

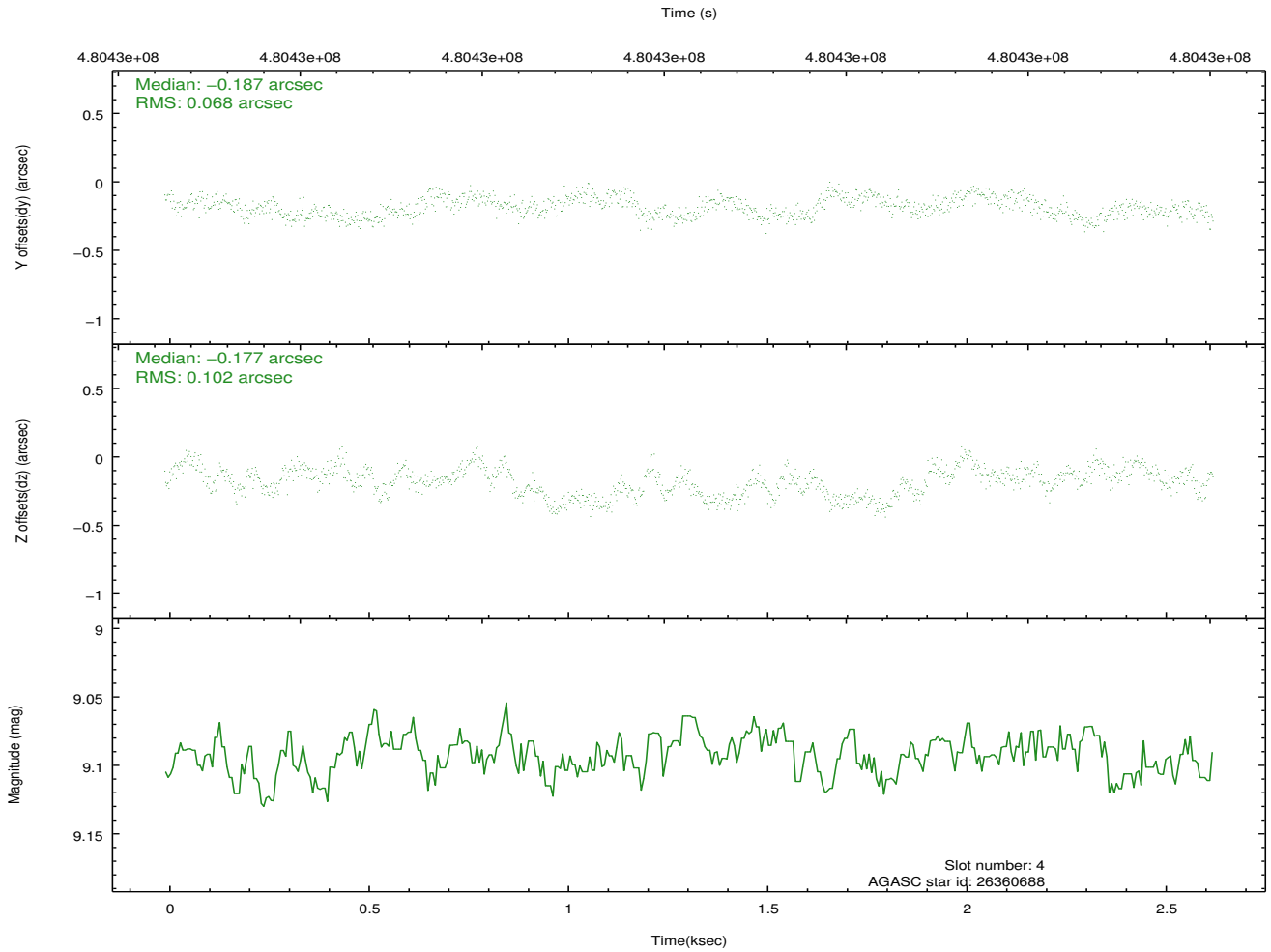
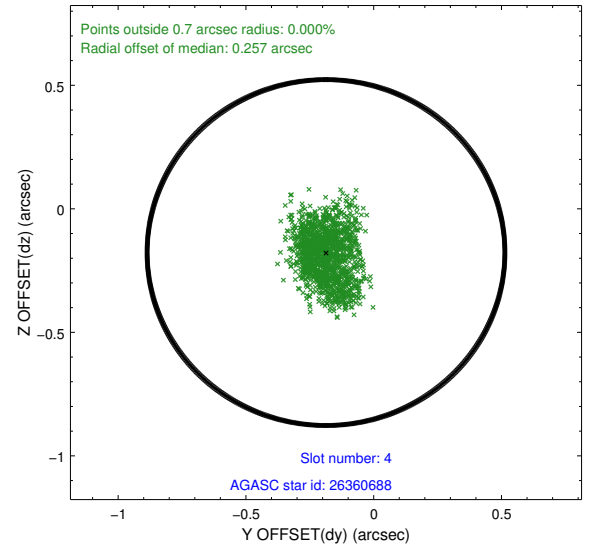
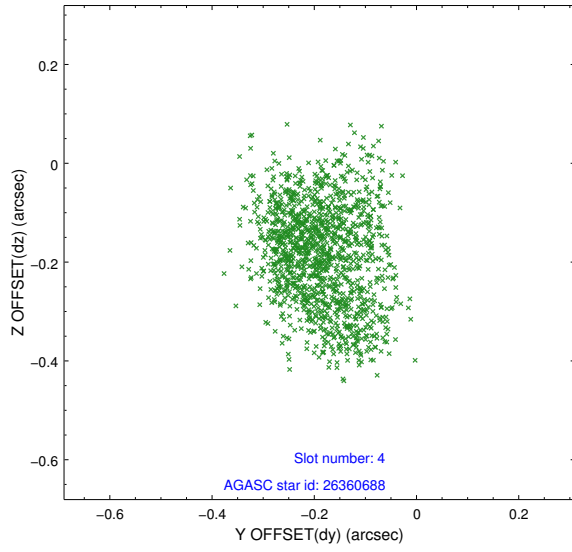
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	642	0.056	-0.054	0.007	0.013	0.000000	0.000000	923.83	-1734.10
1	FID		ACIS-S-4	7.08	642	0.197	0.015	0.006	0.010	0.000000	0.000000	2142.75	167.57
2	FID		ACIS-S-5	7.12	642	-0.280	0.051	0.006	0.011	0.000000	0.000000	-1822.22	164.02
3	GUIDE	used	26359512	8.21	1284	-0.074	-0.243	0.088	0.133	127.368527	3.094504	1291.37	2006.65
4	GUIDE	used	26360688	9.09	1284	-0.187	-0.177	0.131	0.207	127.385910	3.288762	590.74	2025.71
5	GUIDE	used	26869904	9.24	1283	0.101	0.204	0.196	0.297	126.769814	3.979879	-1750.29	-342.91
6	GUIDE	used	26870272	9.80	1284	-0.016	0.094	0.191	0.330	126.327645	3.783436	-945.17	-1884.84
7	GUIDE	used	26362232	10.02	1282	0.186	0.138	0.173	0.265	126.196557	3.680228	-543.73	-2332.29

2.4 Star Slots

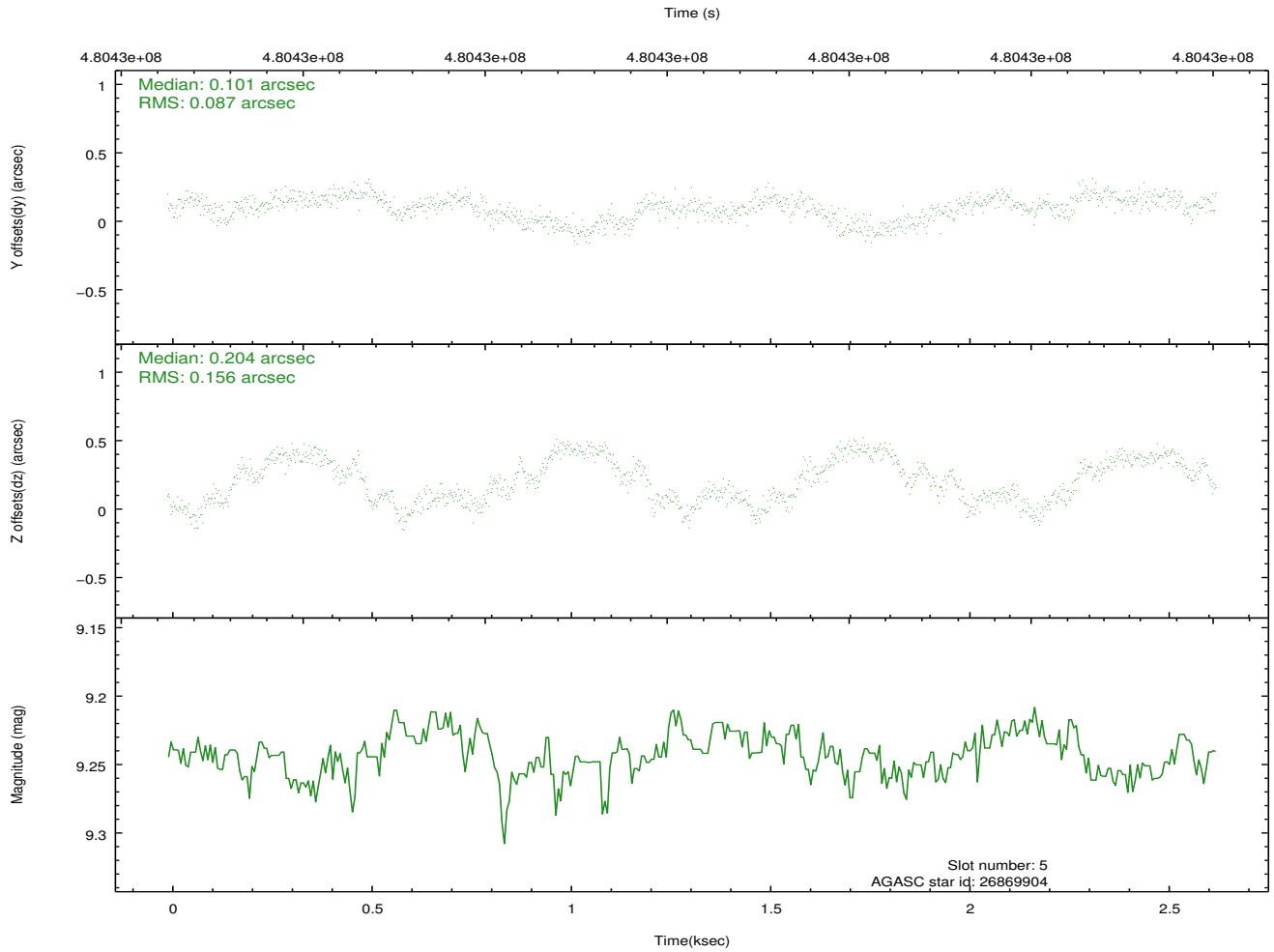
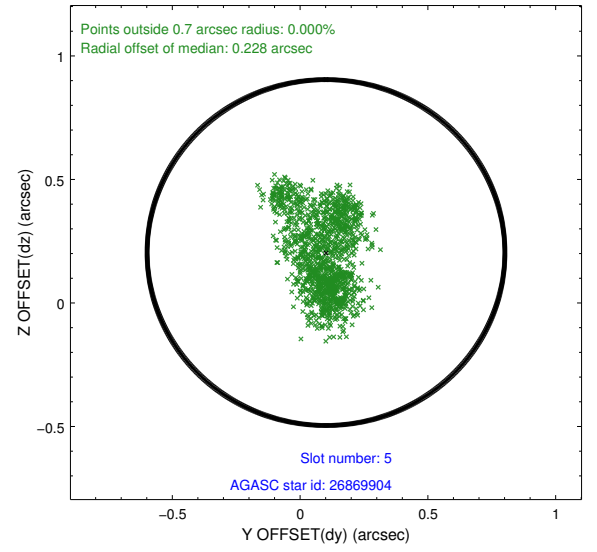
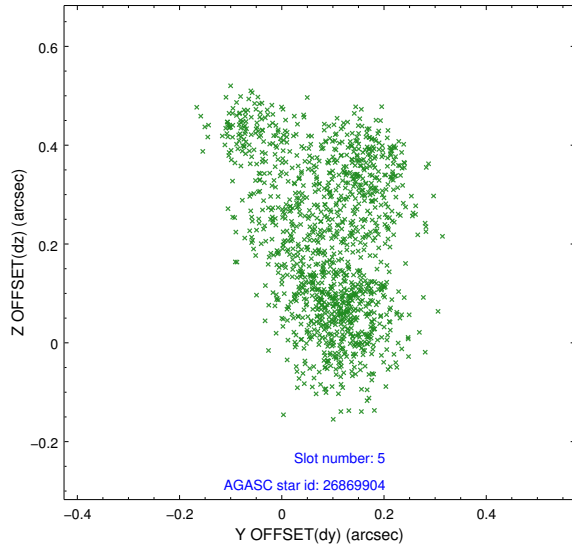
2.4.1 Slot 3



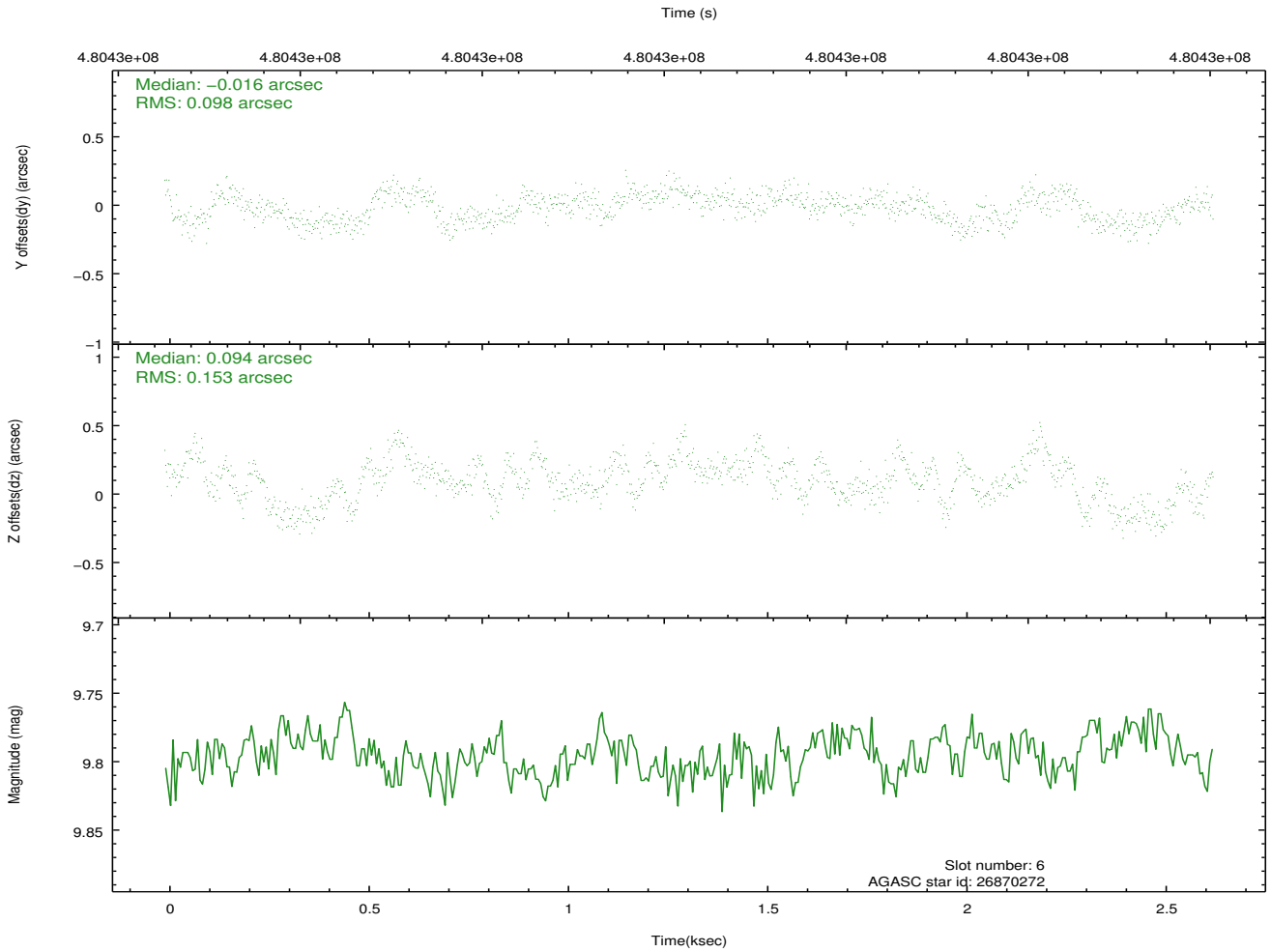
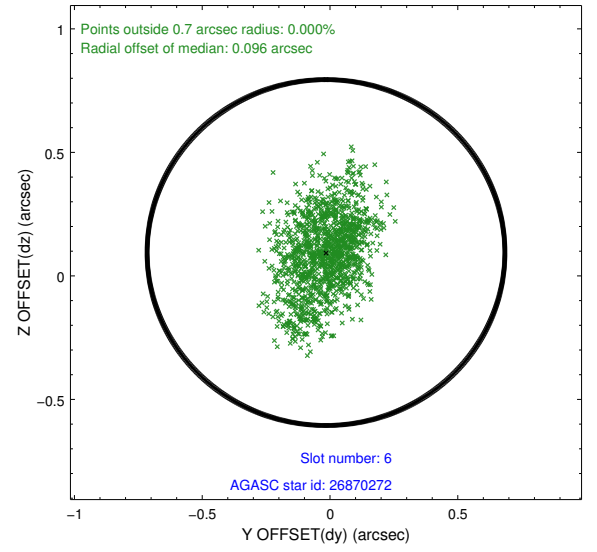
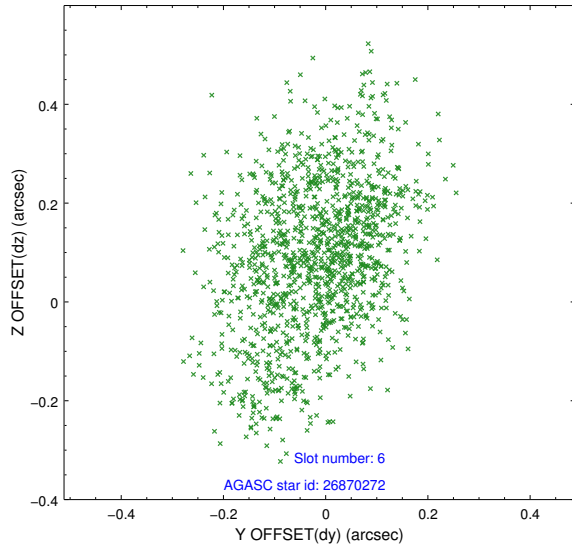
2.4.2 Slot 4



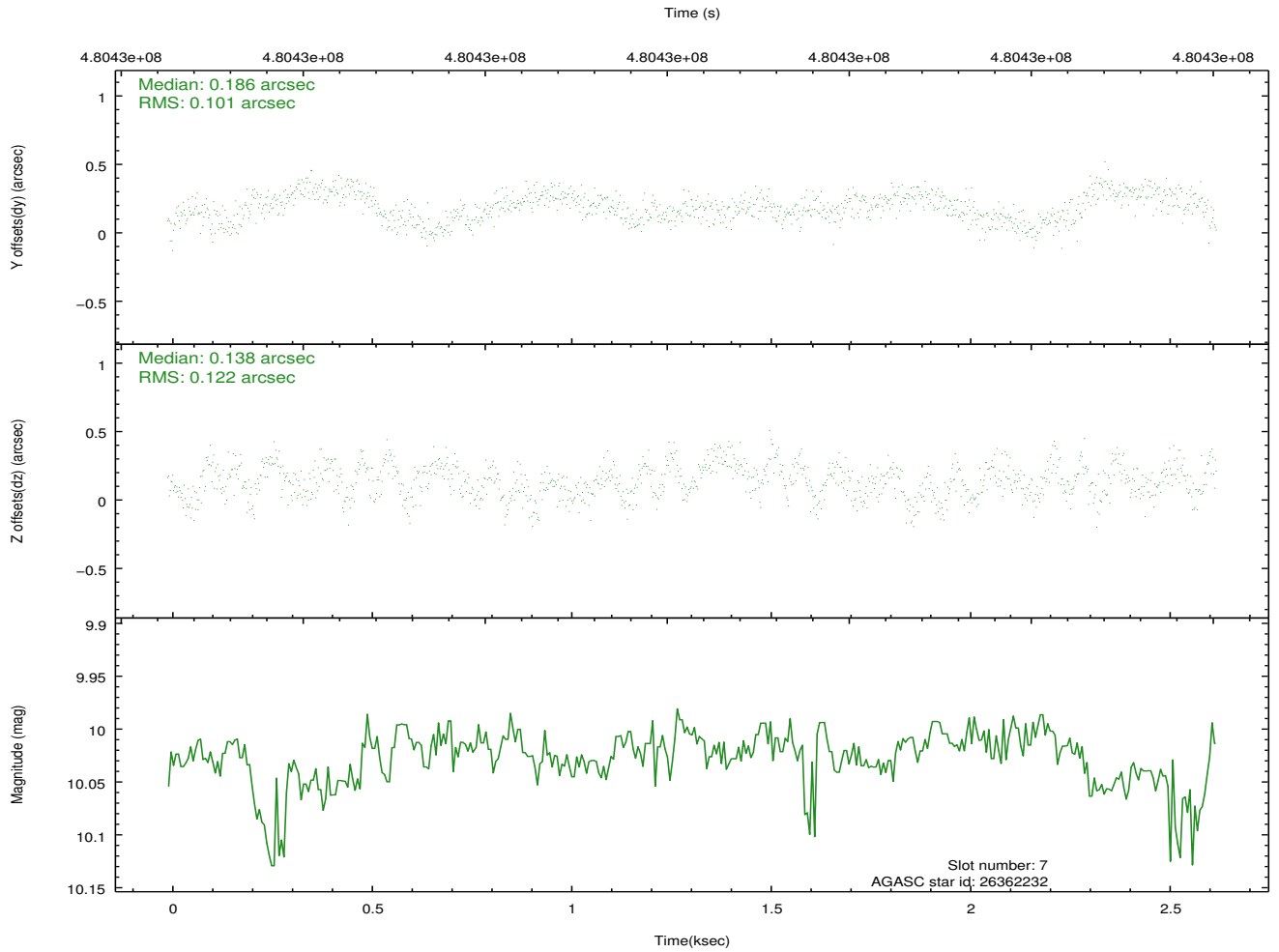
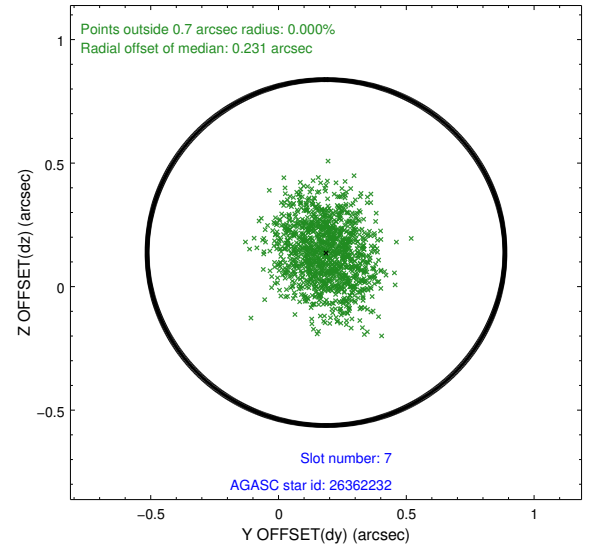
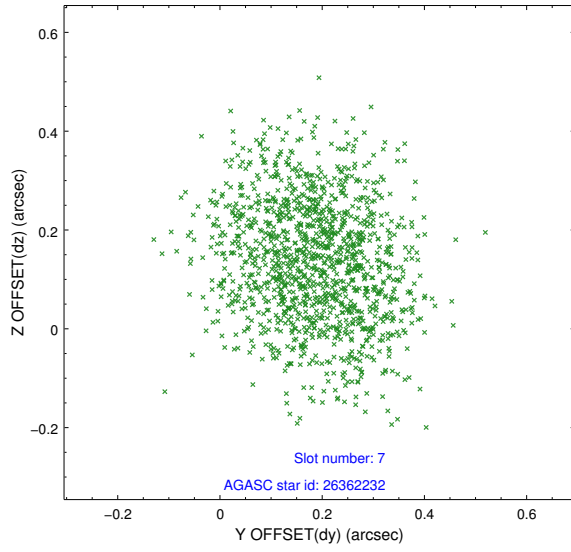
2.4.3 Slot 5



2.4.4 Slot 6

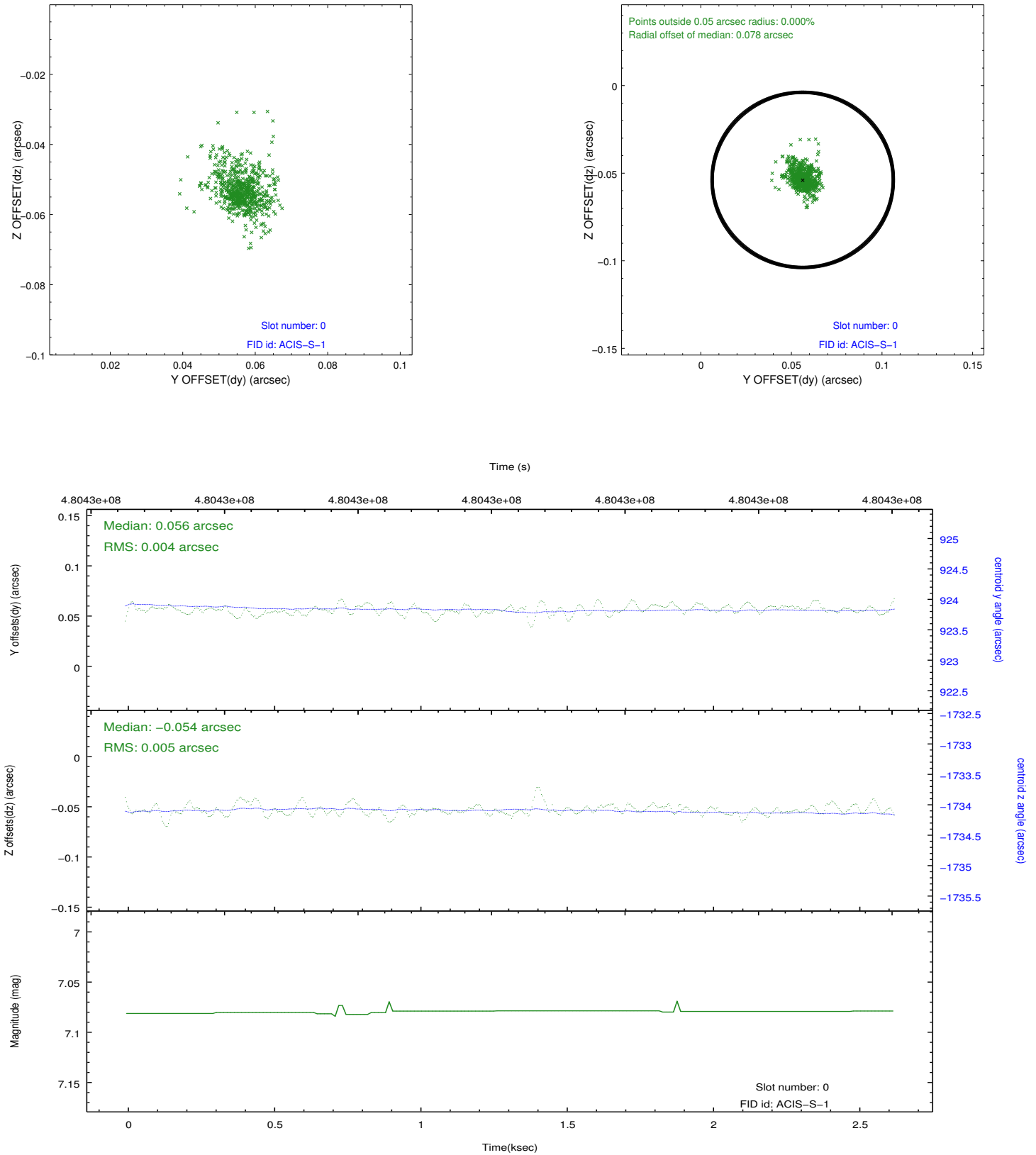


2.4.5 Slot 7

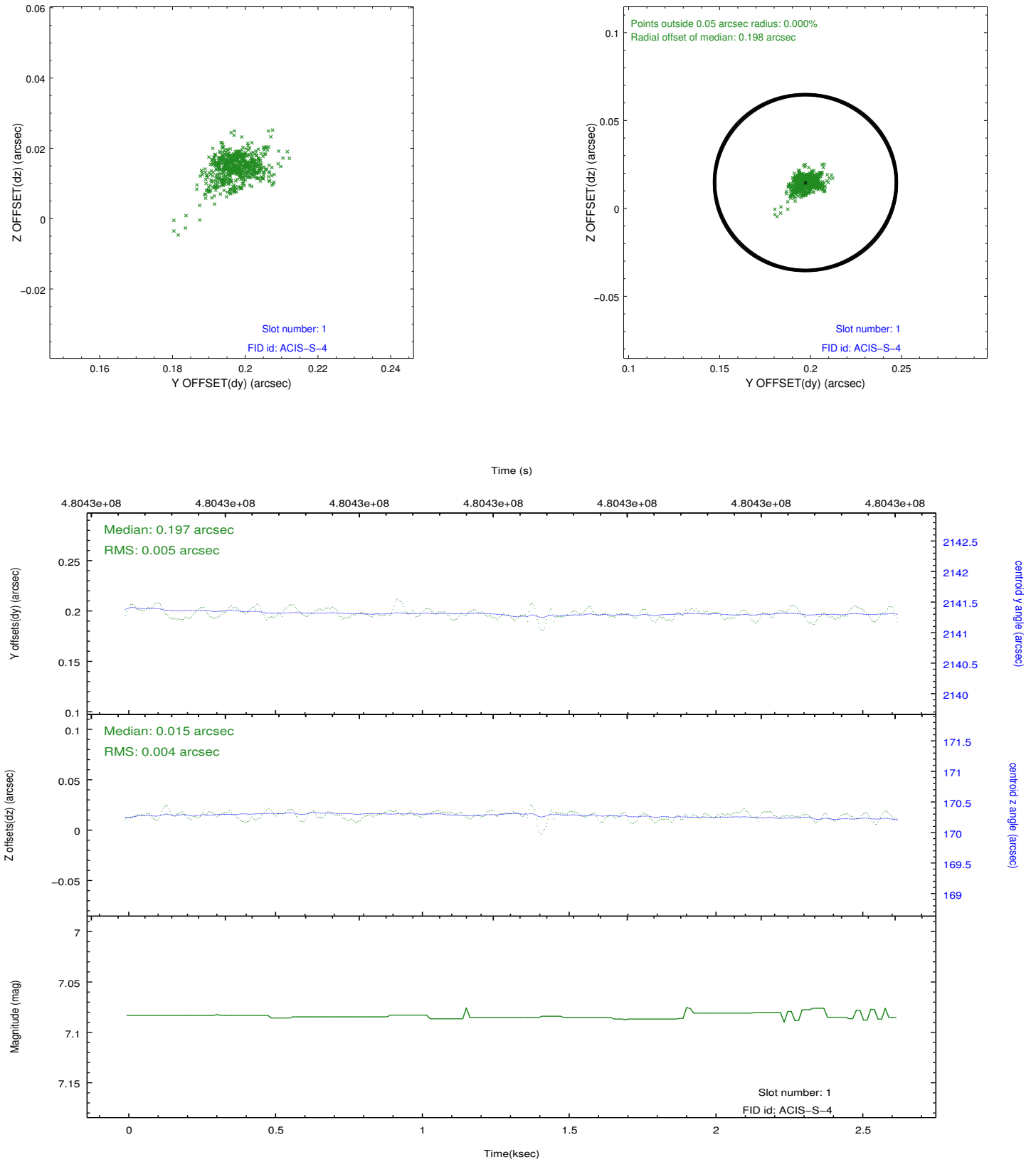


2.5 FID Slots

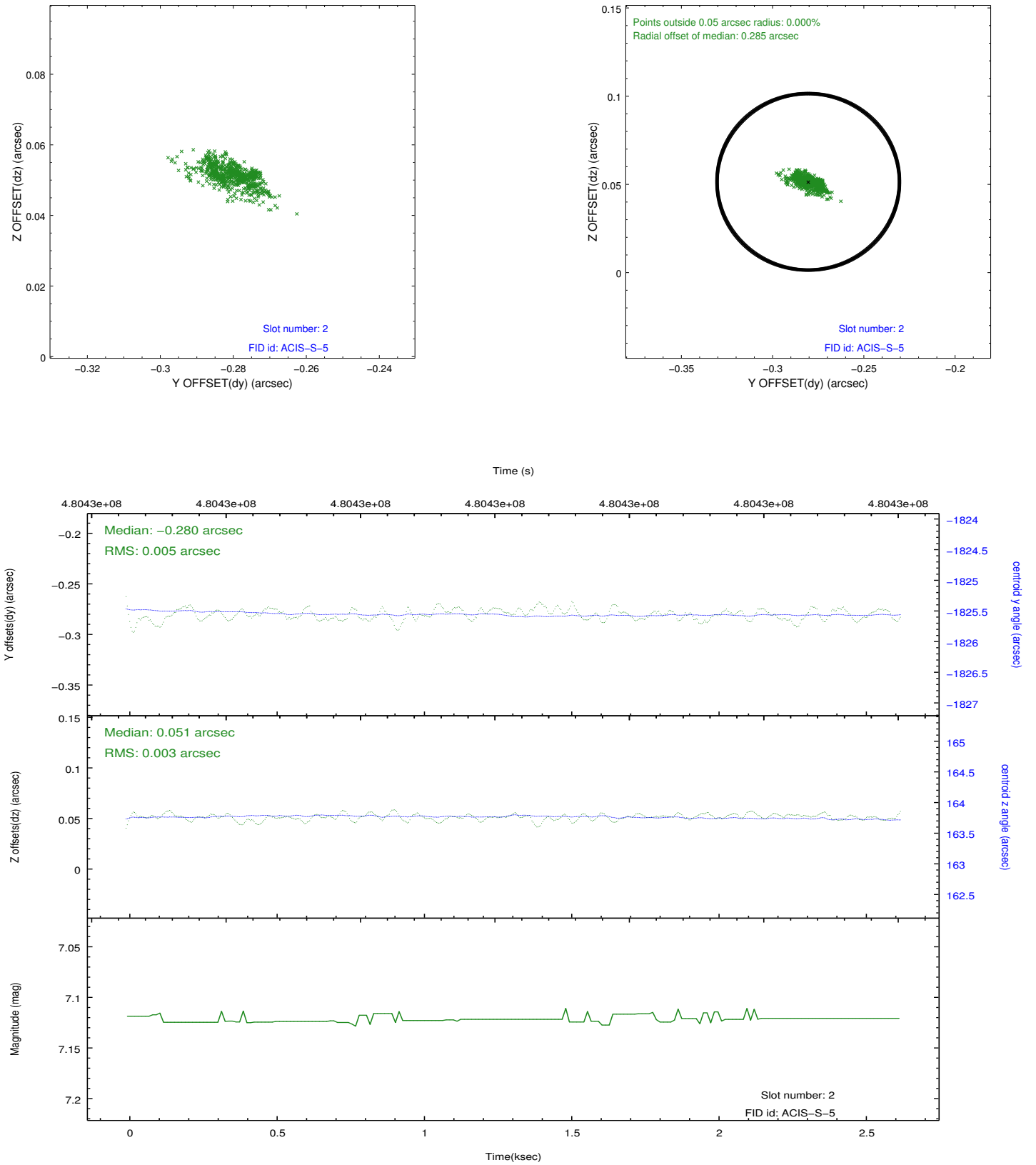
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5946518880129

A.2 Comments

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.