

V&V Reference Report

L2 ASCDS Version : 10

Observation 14638 - L2 Version 2
Chandra X-Ray Center

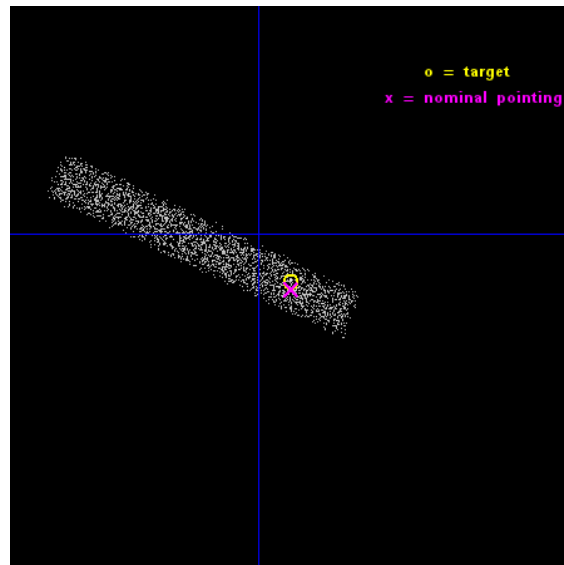
L2 Processing Date : Dec 4 2014

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1 Front

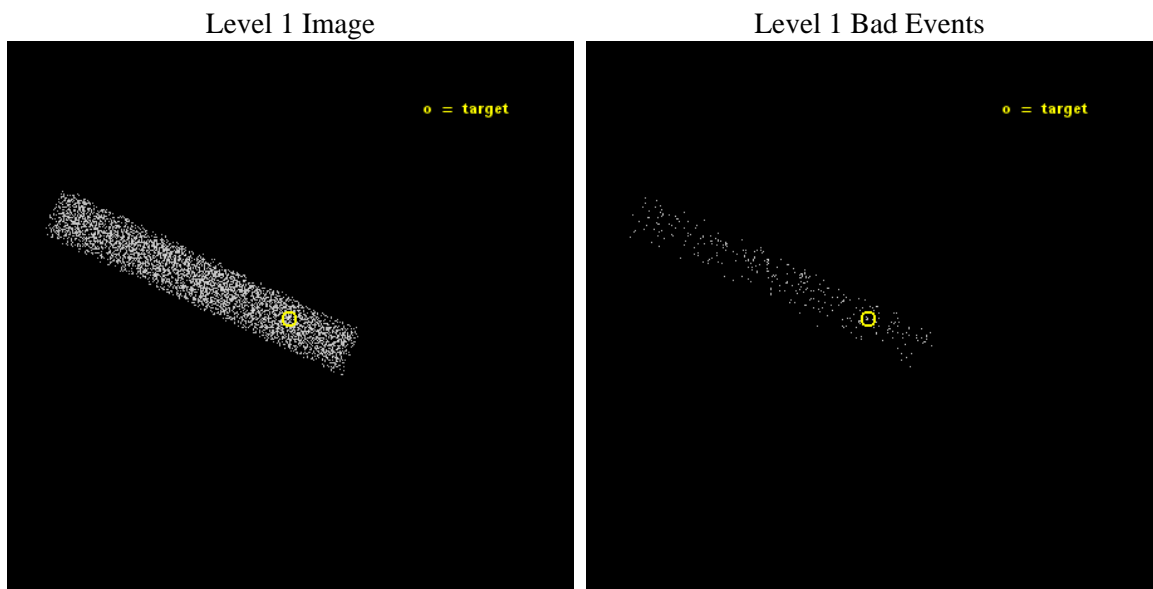
seq_num	401471	Sequence number
obs_id	14638	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	GS 0834-430	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.980833	Observer's specified target RA [deg]
dec_targ	-43.186639	Observer's specified target Dec [deg]
ra_nom	128.98023617305	Nominal RA [deg]
dec_nom	-43.189689040748	Nominal Dec [deg]
roll_nom	204.53357807233	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.5996978283	Sum of GTIs [s]
livetime	4597.8593305172	Livetime [s]
ontime7	5069.5996978283	Sum of GTIs [s]
l2events	3178	Number of level 2 events



2 OBI

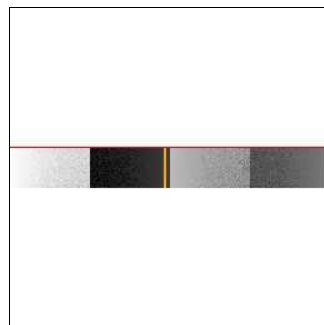
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.032000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.5996978283	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5069.5996978283	Sum of GTIs [s]
date	2014-12-04T09:49:41	Date and time of file creation	l1events	5677	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	5677
rejected events	2401
rejected %	42%

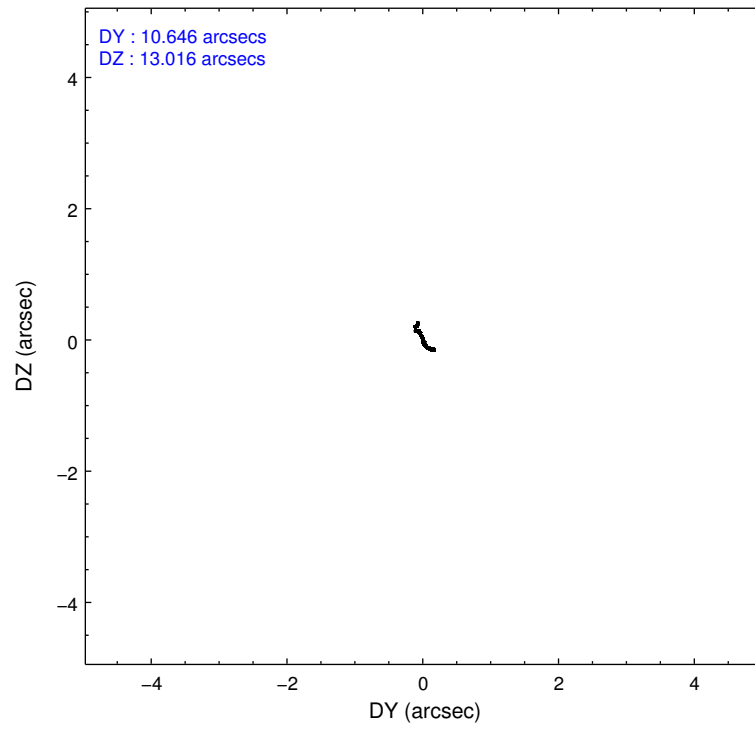
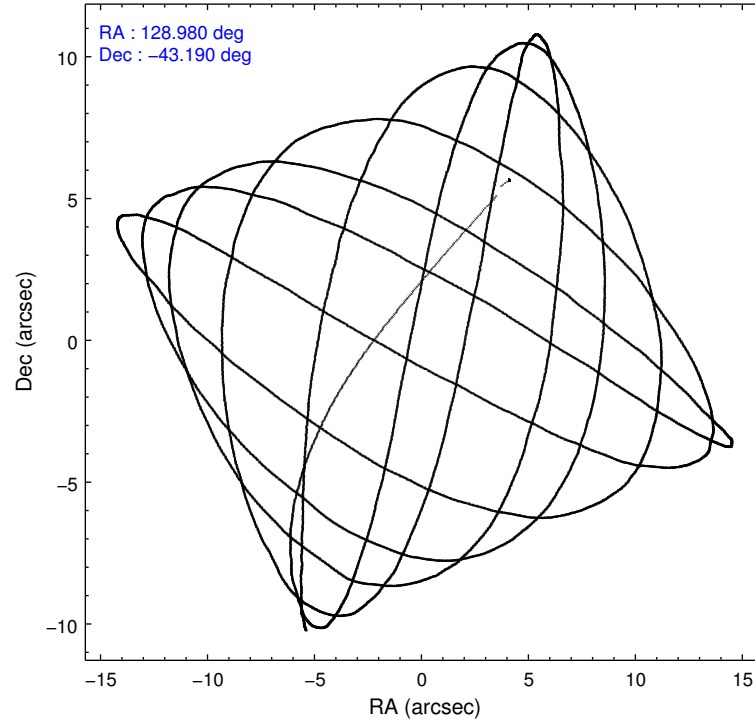
	ccd 7
grade 0 events	848
	14%
grade 1 events	7
	0%
grade 2 events	648
	11%
grade 3 events	374
	6%
grade 4 events	364
	6%
grade 5 events	478
	8%
grade 6 events	1042
	18%
grade 7 events	1916
	33%

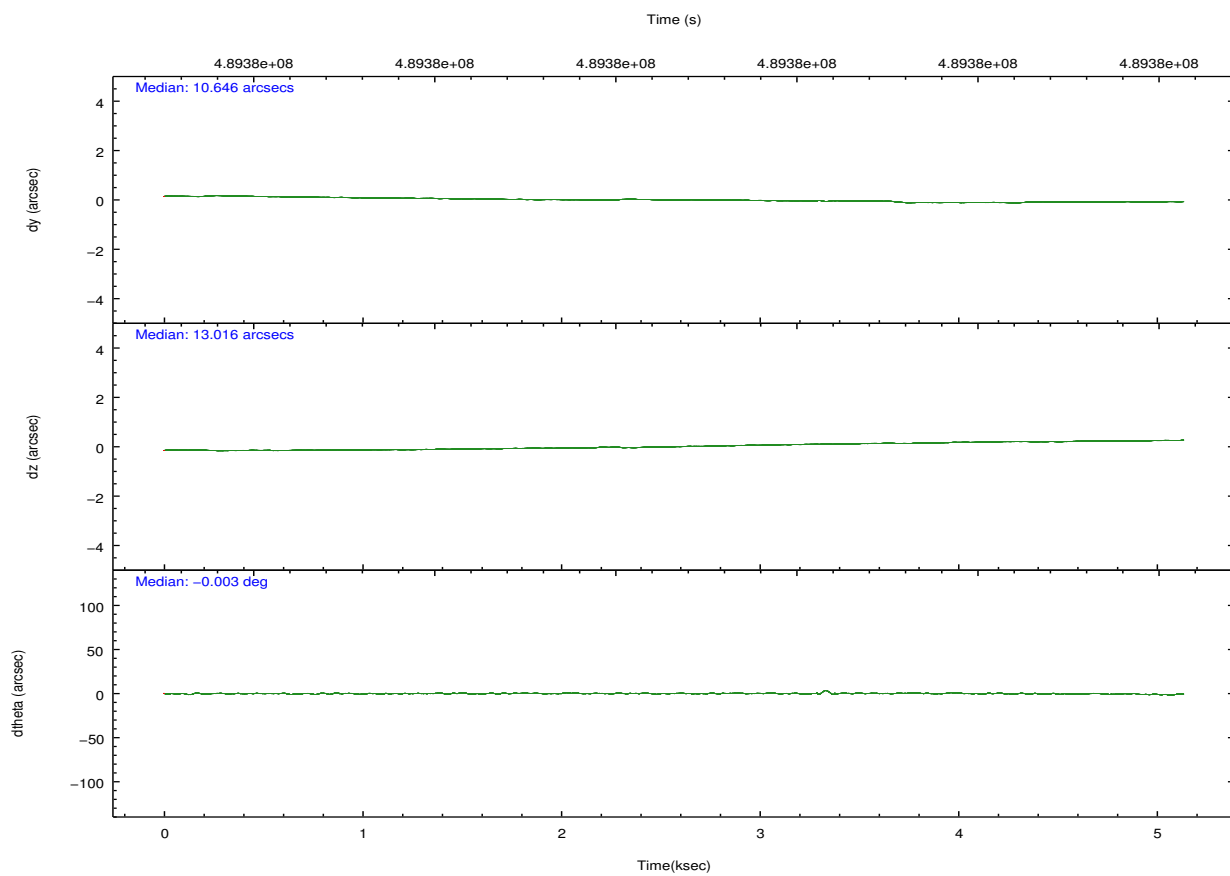
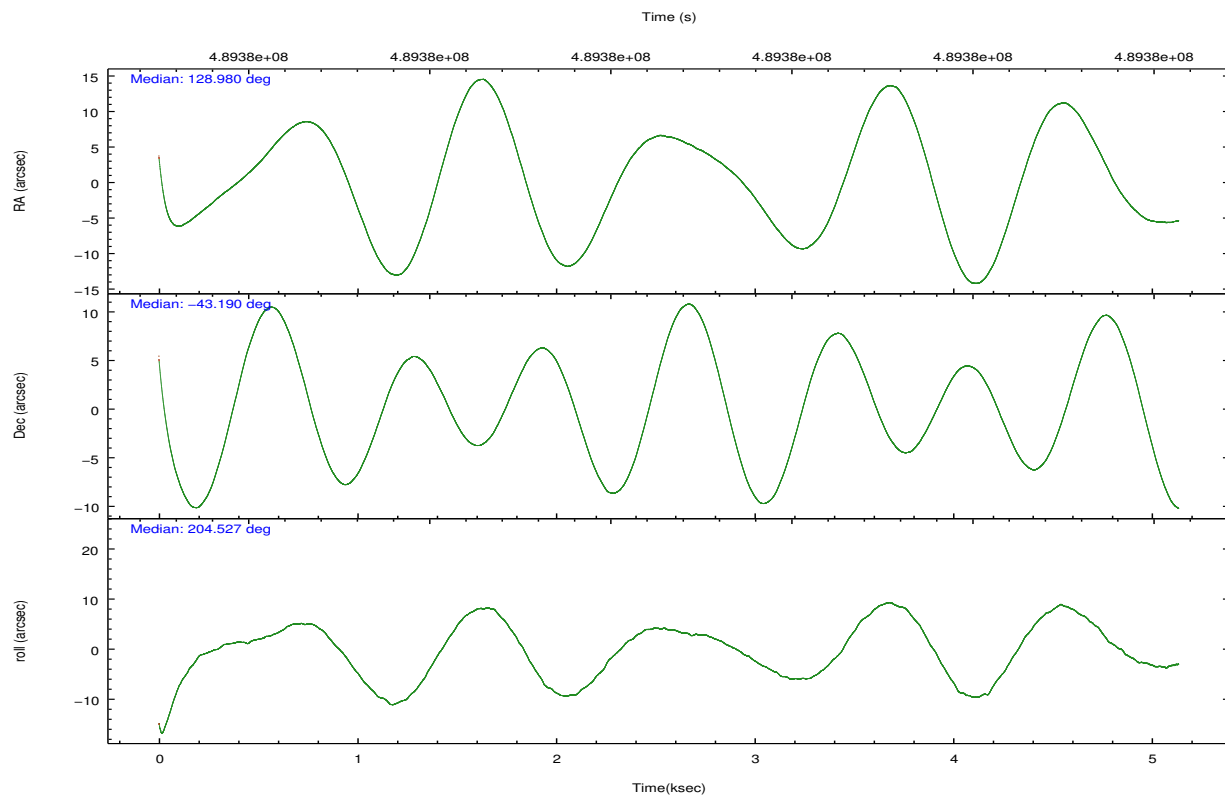
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	129.001593	128.9802361730485
[deg] Pointing Dec	-43.167159	-43.18968904074814
[deg] Pointing Roll	204.391612	204.5335780723344
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	489377892.184000	489376714.5068
Observation start date	2013-07-05T02:17:05	2013-07-05T01:58:34
[s] Observation end time (MET)	489382892.184000	489383118.19465
Observation end date	2013-07-05T03:40:25	2013-07-05T03:45:18
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



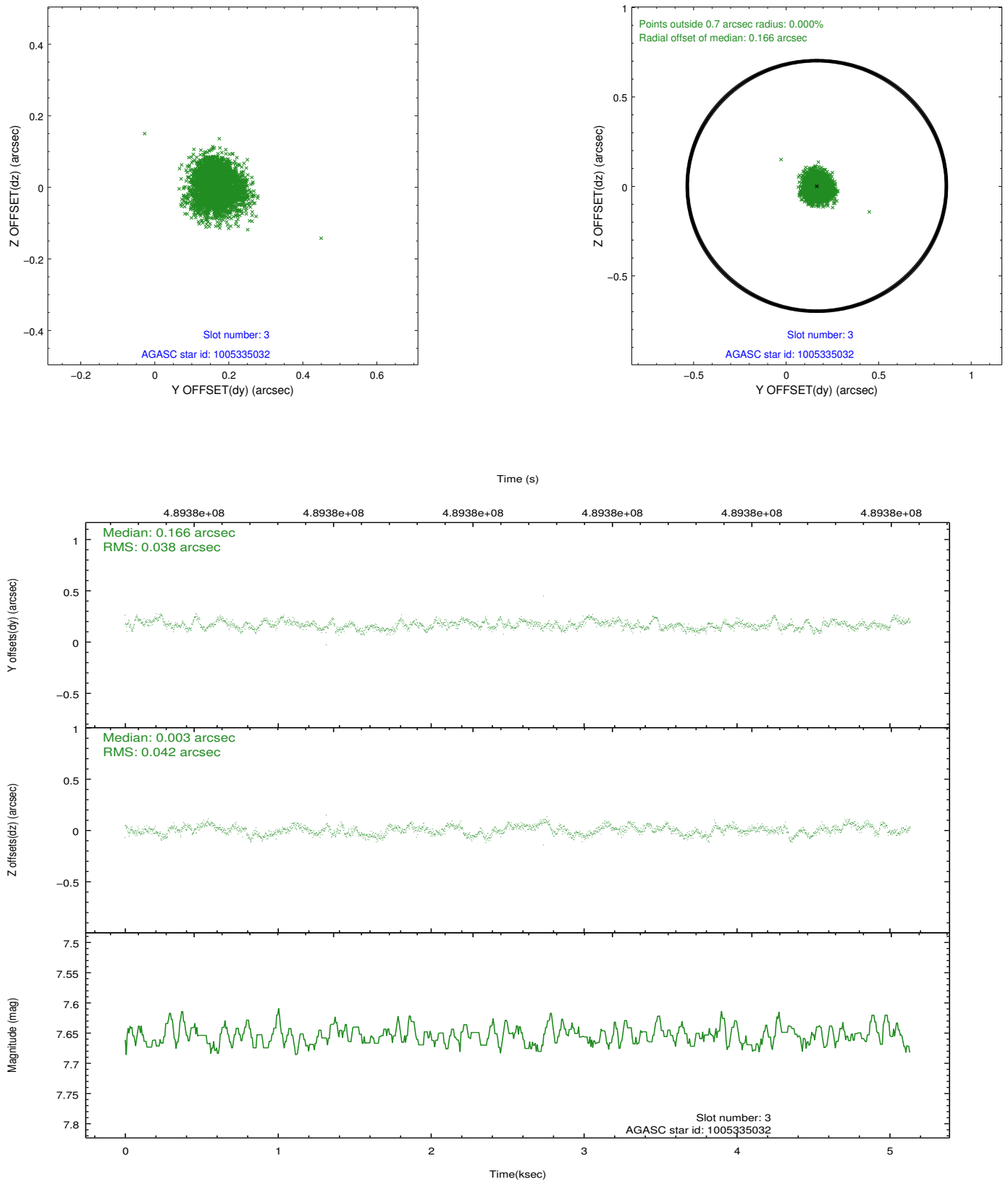


Slot Statistics

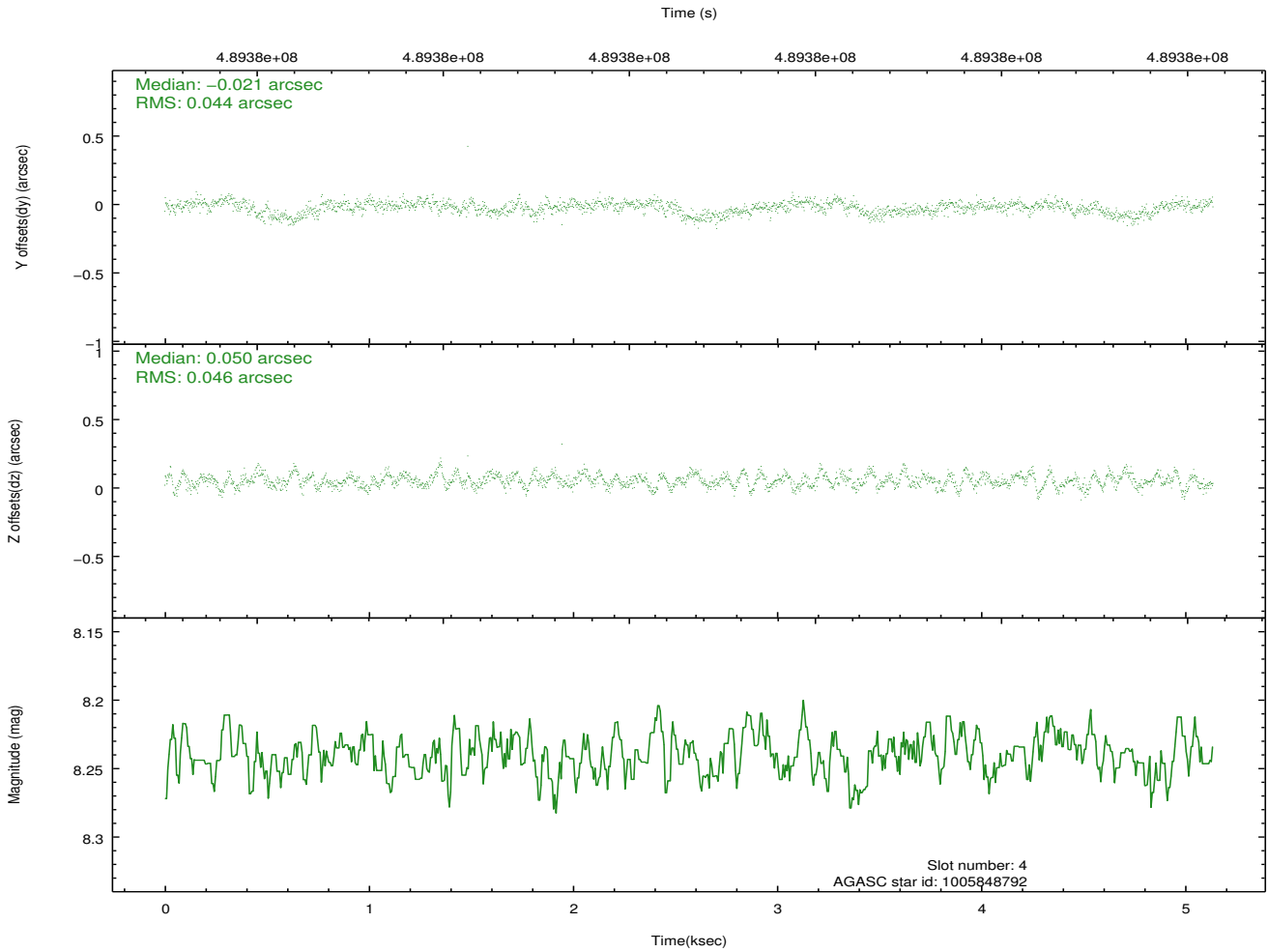
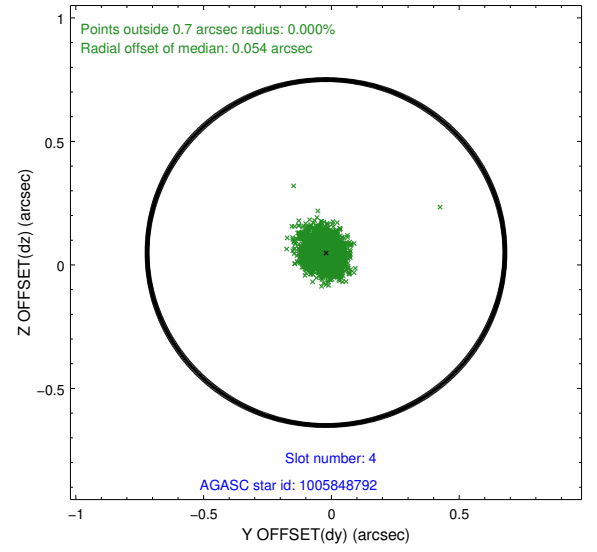
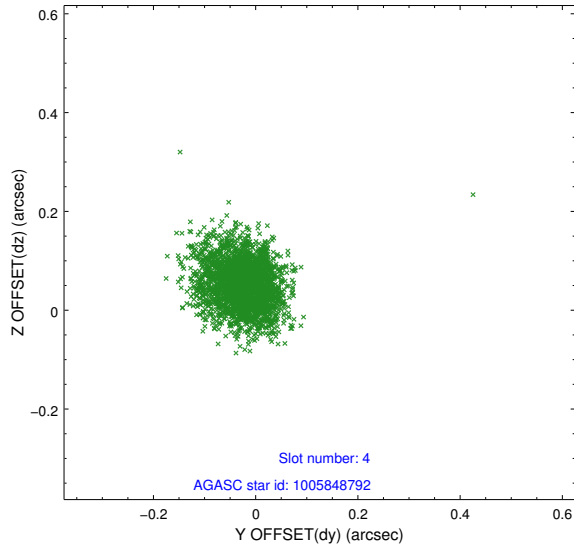
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	1253	-0.059	-0.057	0.007	0.012	0.000000	0.000000	-763.60	-1734.41
1	FID		ACIS-S-4	7.15	1253	0.195	0.044	0.007	0.012	0.000000	0.000000	2149.44	172.89
2	FID		ACIS-S-5	7.18	1253	-0.167	0.022	0.007	0.012	0.000000	0.000000	-1814.99	167.97
3	GUIDE	used	1005335032	7.65	2506	0.166	0.003	0.062	0.094	128.904941	-42.560458	-667.99	-2095.08
4	GUIDE	used	1005848792	8.24	2505	-0.021	0.050	0.066	0.109	129.279861	-43.533078	-117.32	1499.40
5	GUIDE	used	1005850760	9.10	2505	-0.103	-0.062	0.084	0.142	129.553483	-43.430390	-921.13	1463.80
6	GUIDE	used	1005872064	9.35	2503	0.056	-0.087	0.098	0.157	128.633333	-43.480879	1343.12	633.81
7	GUIDE	used	1005331720	7.62	2504	-0.093	0.096	0.057	0.095	129.450515	-42.319838	-2346.18	-2281.76

2.4 Star Slots

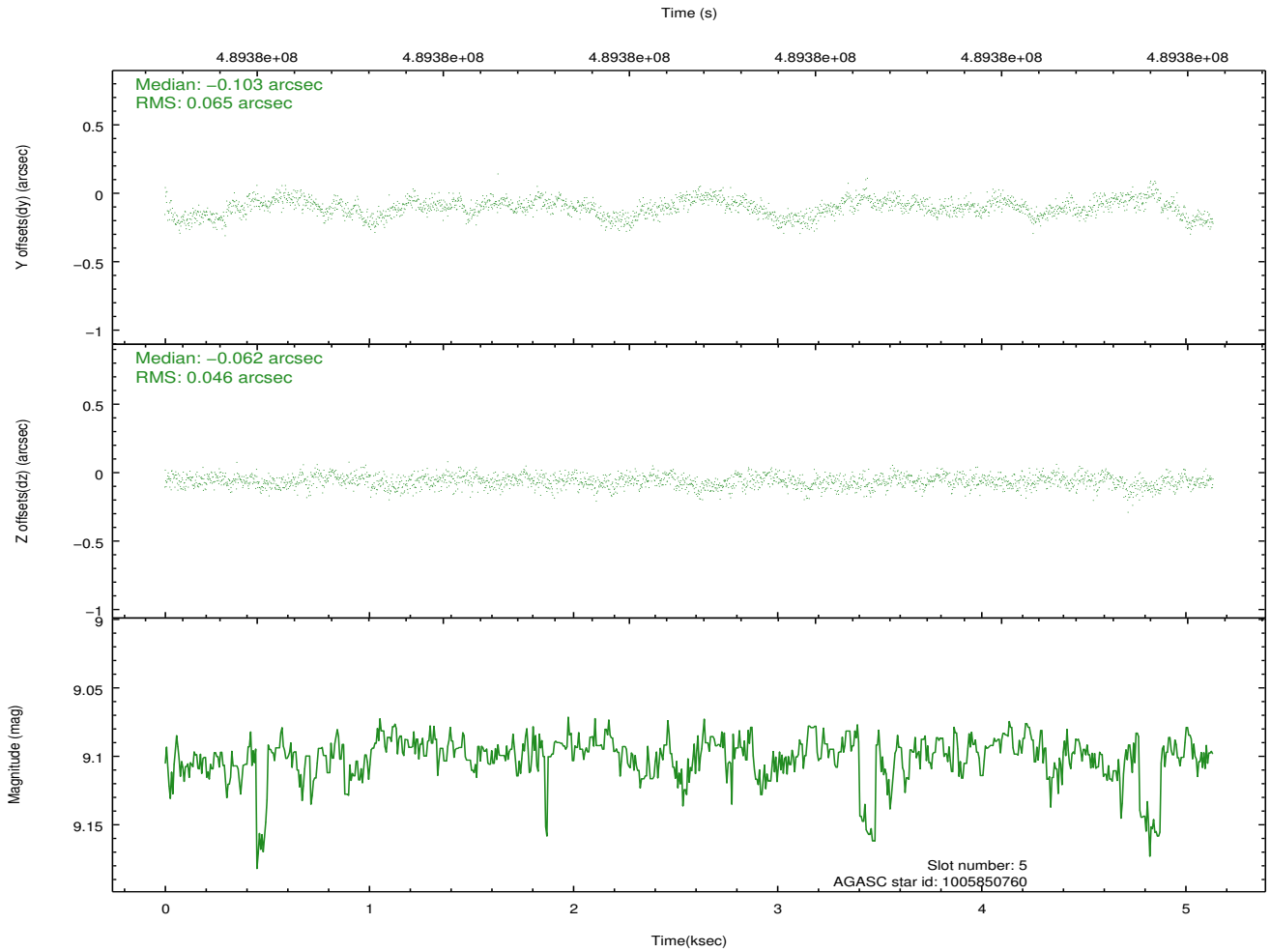
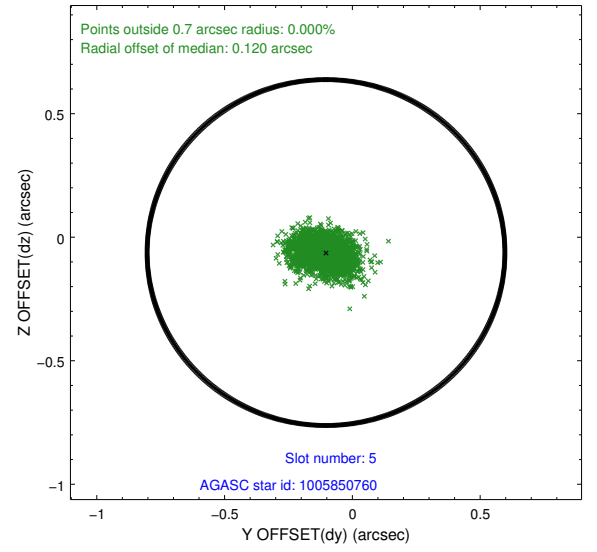
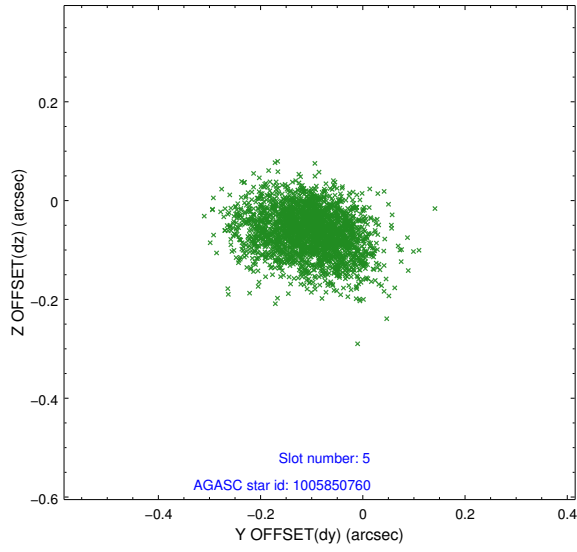
2.4.1 Slot 3



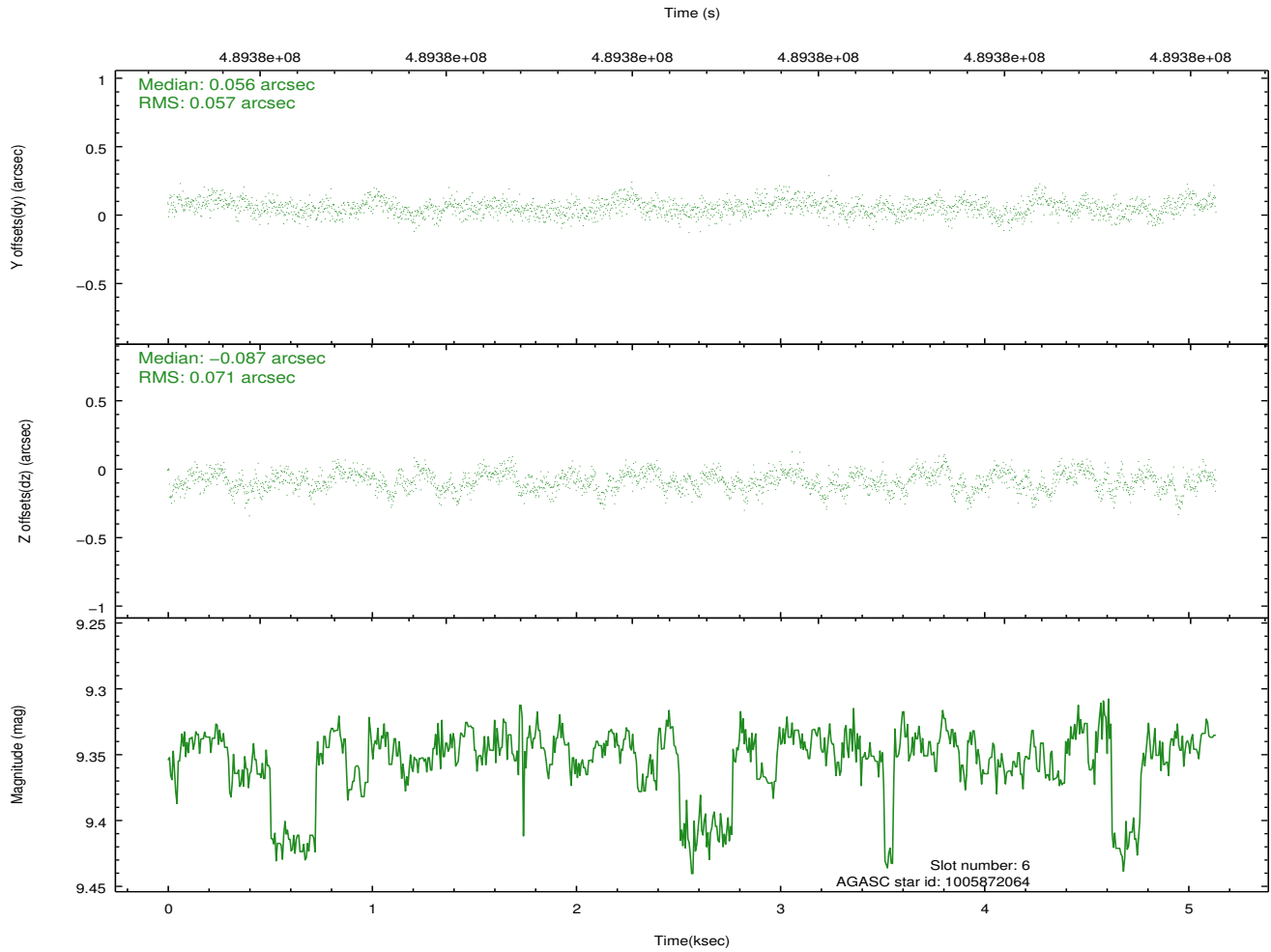
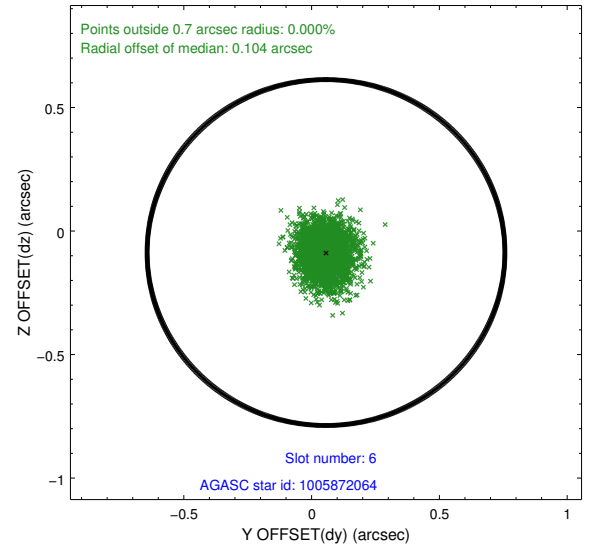
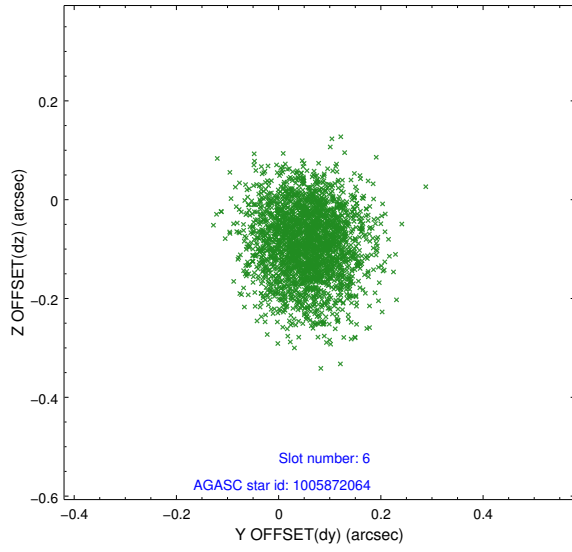
2.4.2 Slot 4



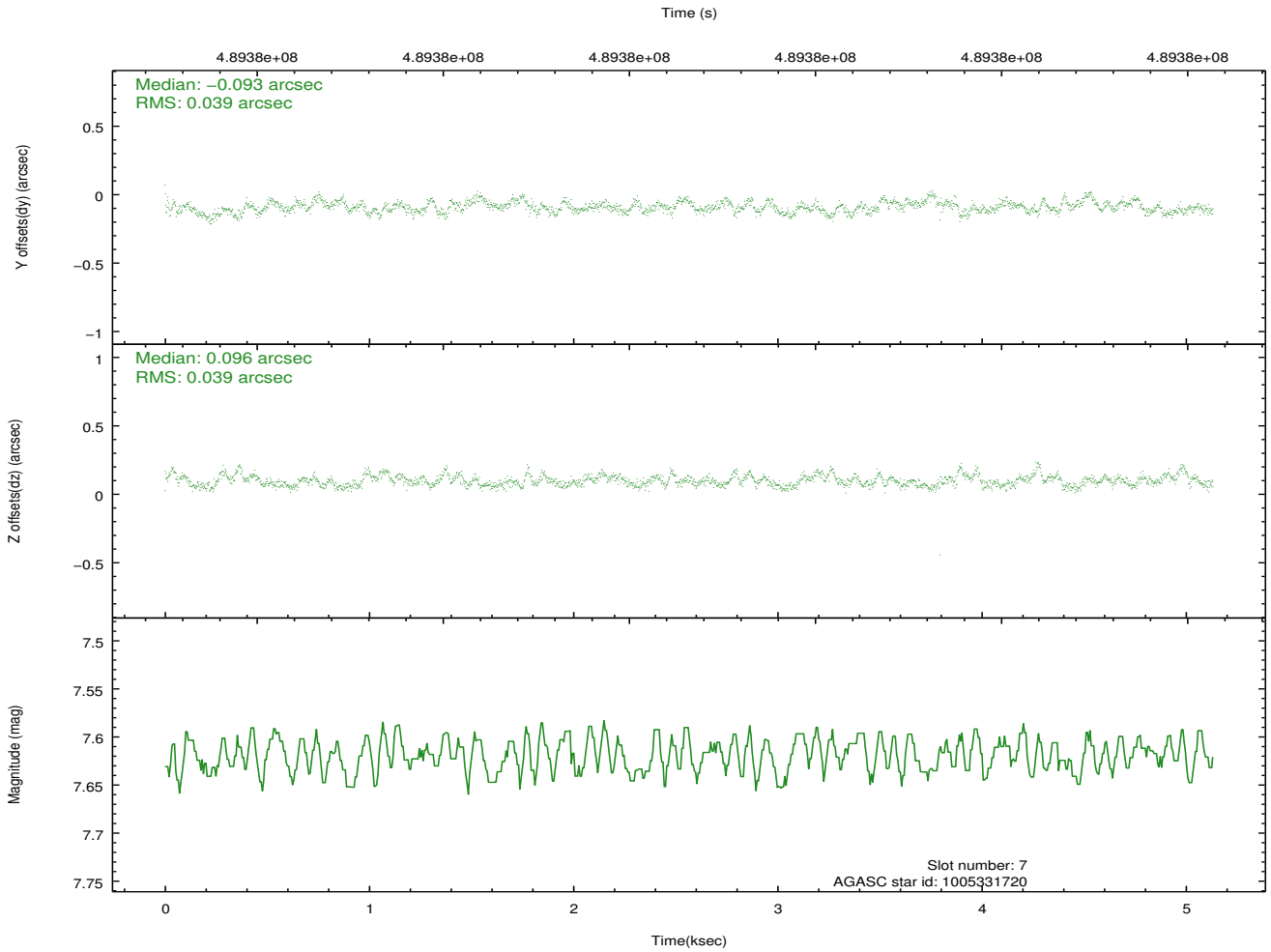
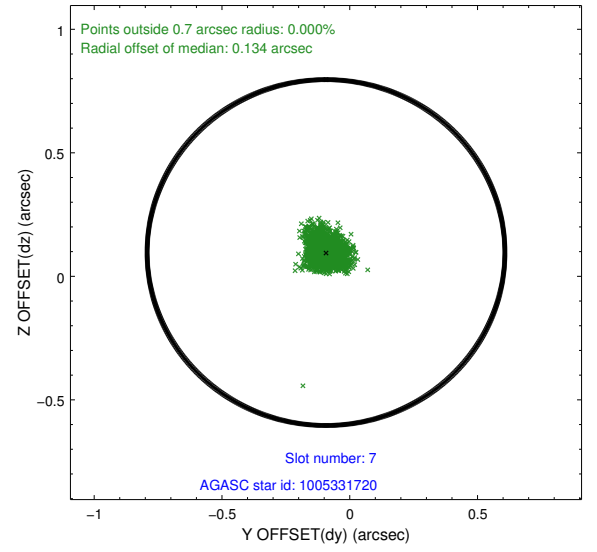
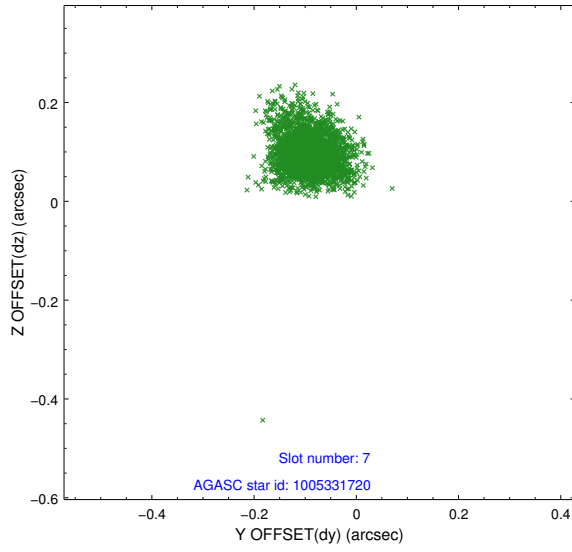
2.4.3 Slot 5



2.4.4 Slot 6

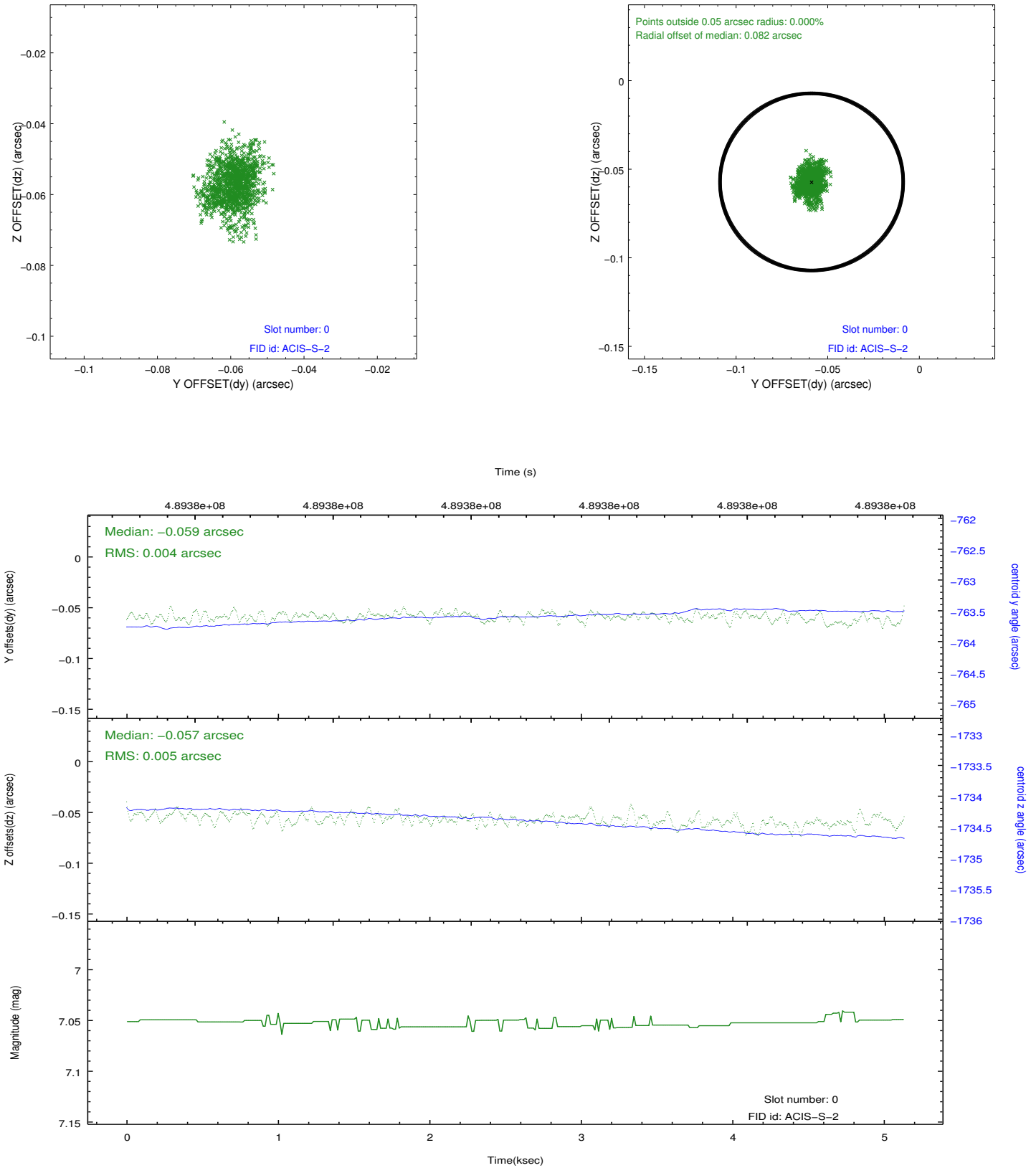


2.4.5 Slot 7

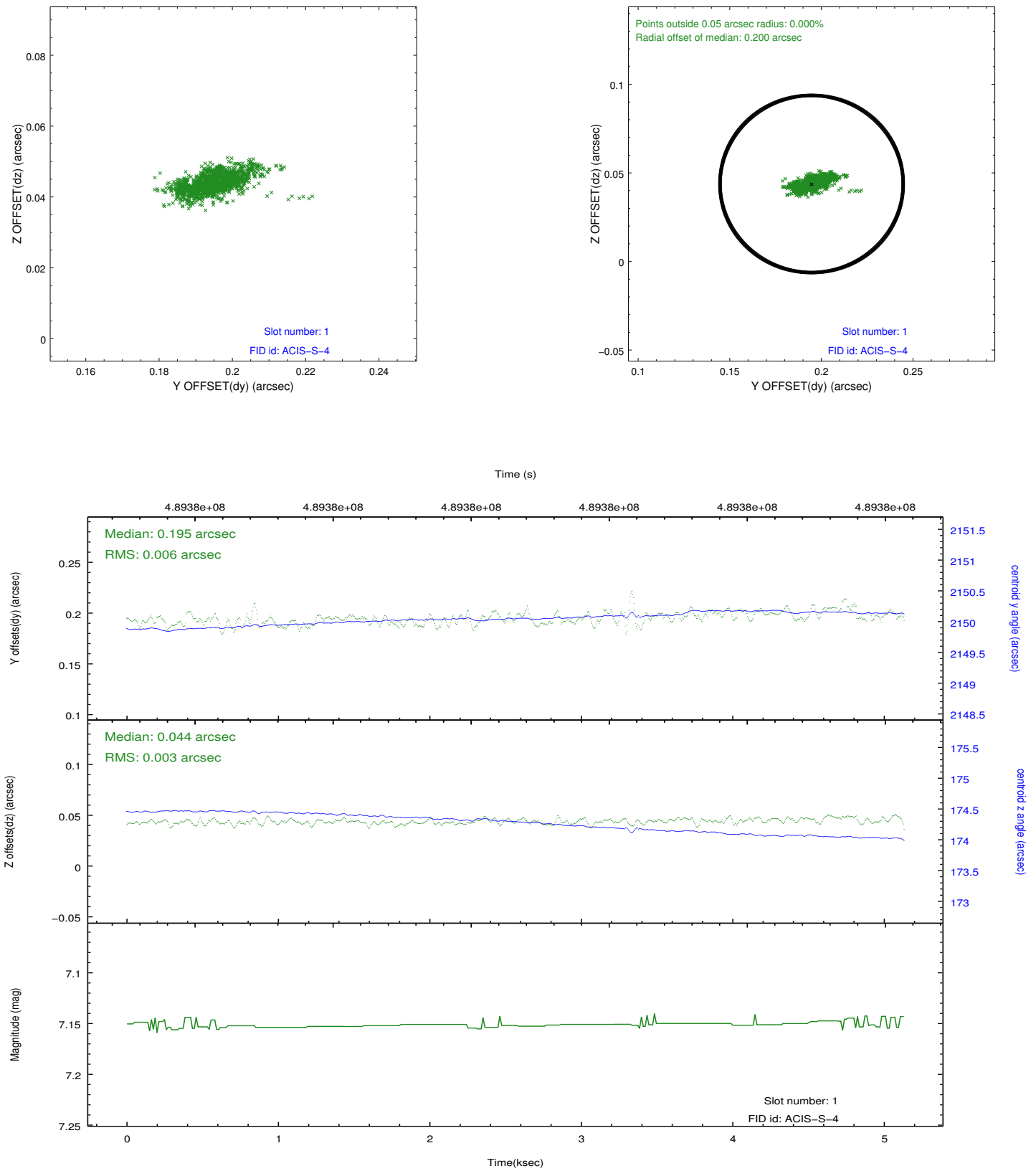


2.5 FID Slots

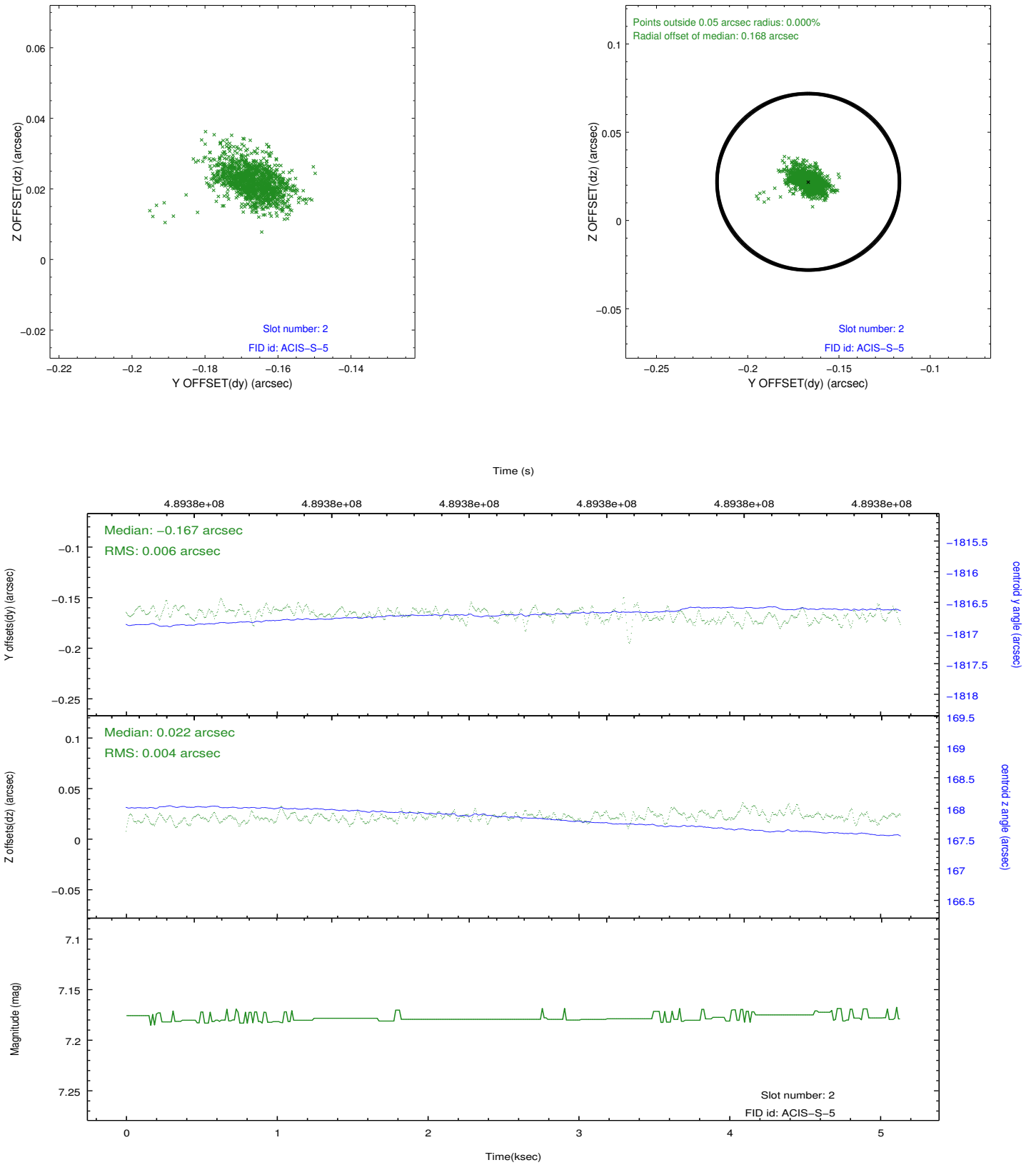
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0695996978283

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.