

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14636 - L2 Version 2
Chandra X-Ray Center

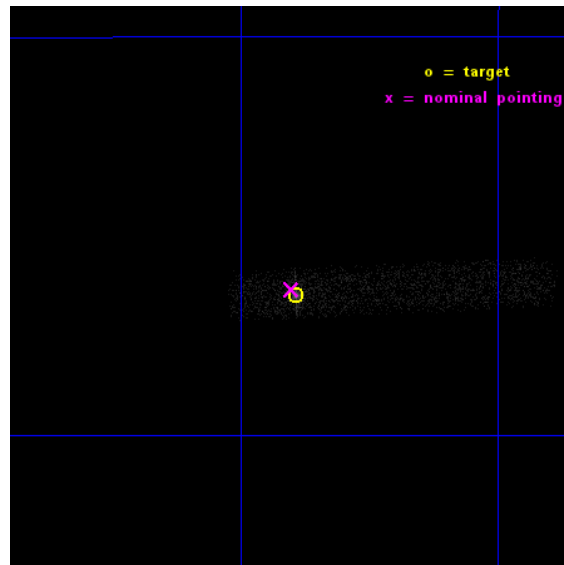
L2 Processing Date : Nov 30 2014

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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

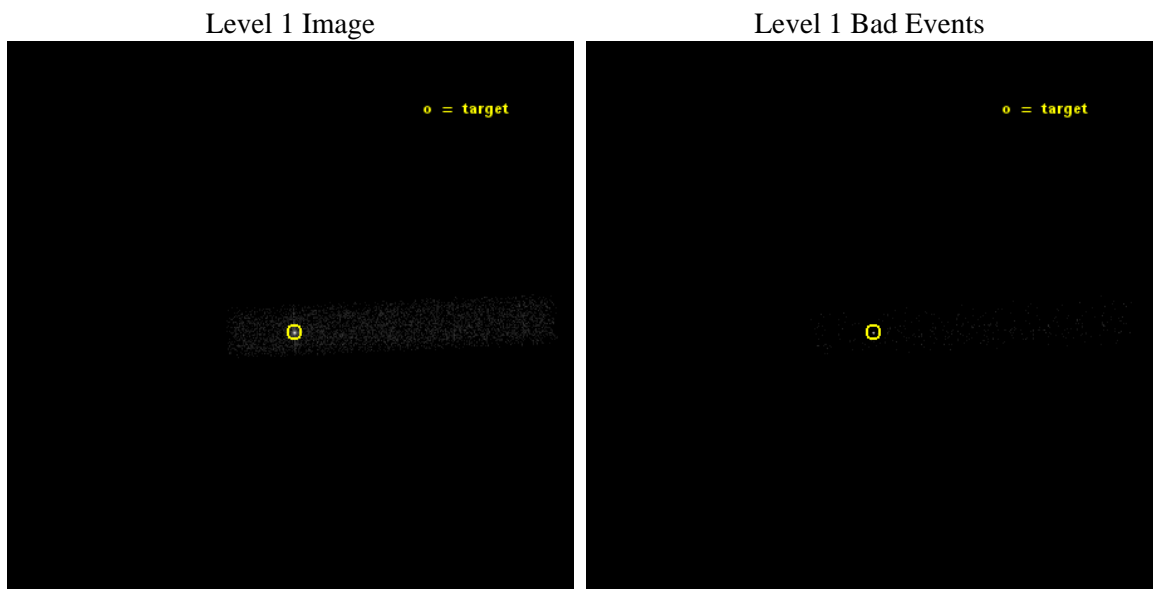
seq_num	401469	Sequence number
obs_id	14636	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	4U 0728-25	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	112.223333	Observer's specified target RA [deg]
dec_targ	-26.108056	Observer's specified target Dec [deg]
ra_nom	112.22531617793	Nominal RA [deg]
dec_nom	-26.105563199377	Nominal Dec [deg]
roll_nom	357.41288129653	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.9996978045	Sum of GTIs [s]
livetime	4598.2221093819	Livetime [s]
ontime7	5069.9996978045	Sum of GTIs [s]
l2events	9364	Number of level 2 events



2 OBI

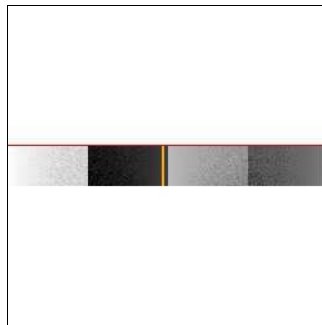
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.9996978045	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5069.9996978045	Sum of GTIs [s]
date	2014-12-01T01:57:29	Date and time of file creation	l1events	13342	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

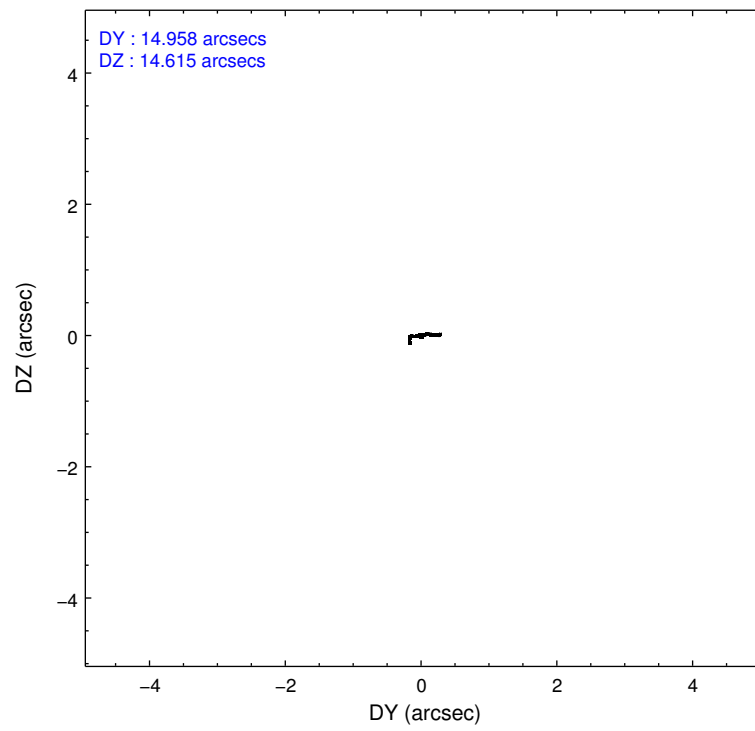
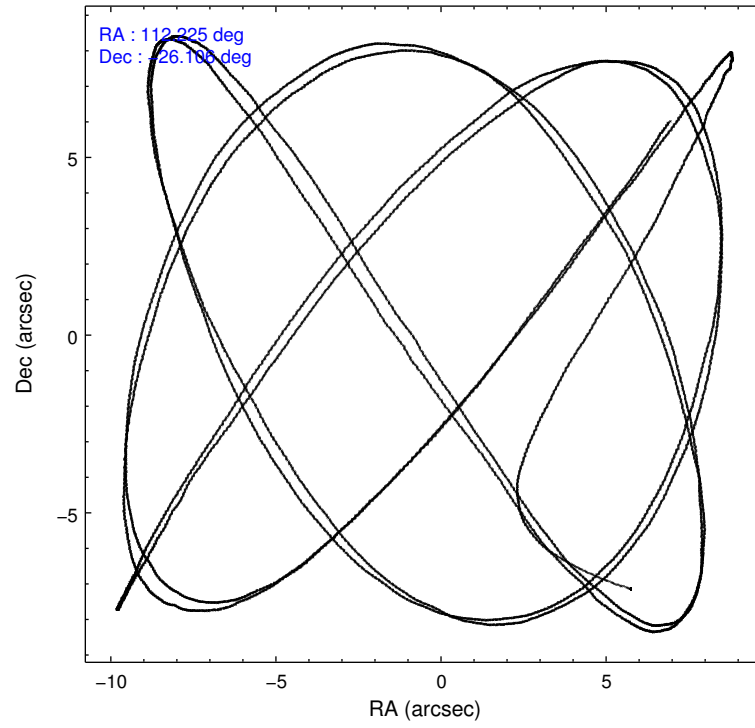
	ccd 7
level 1 events	13342
rejected events	3867
rejected %	28%

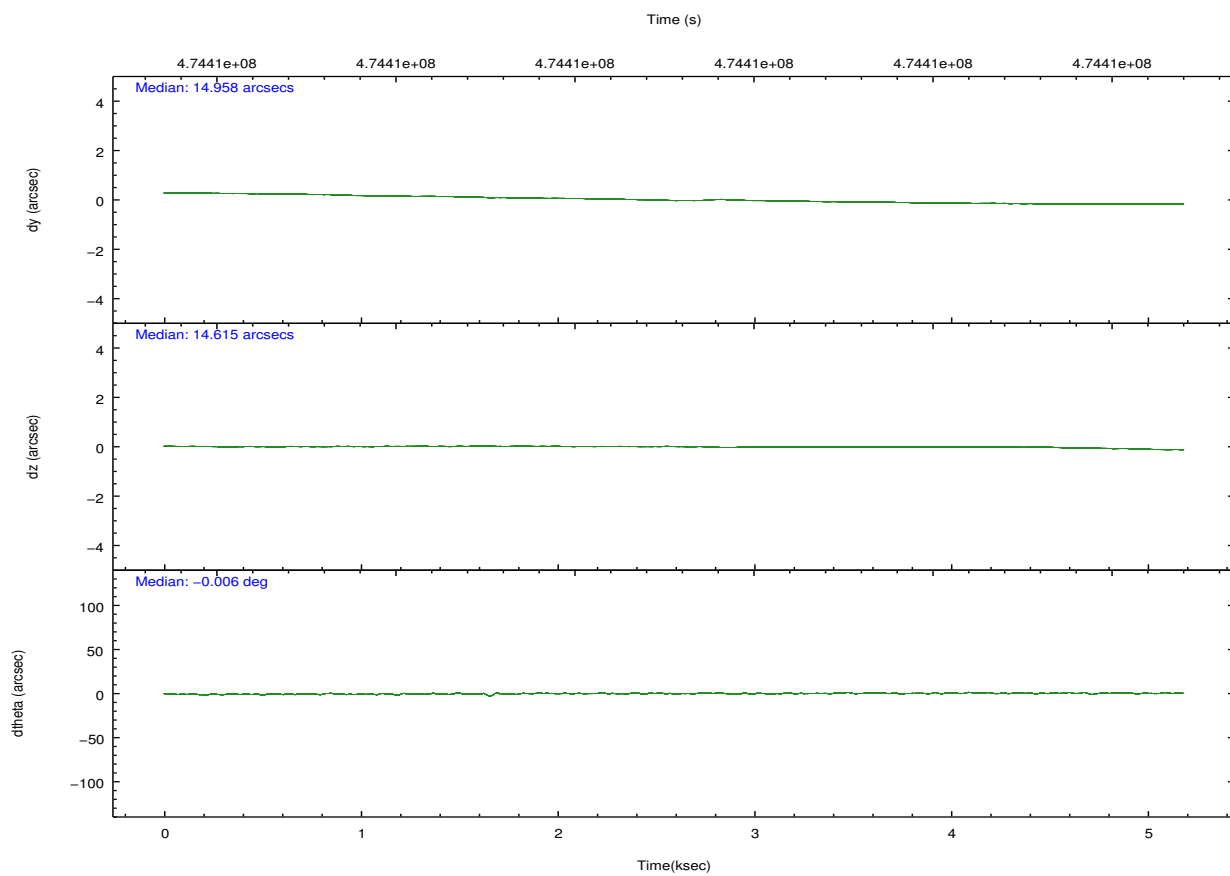
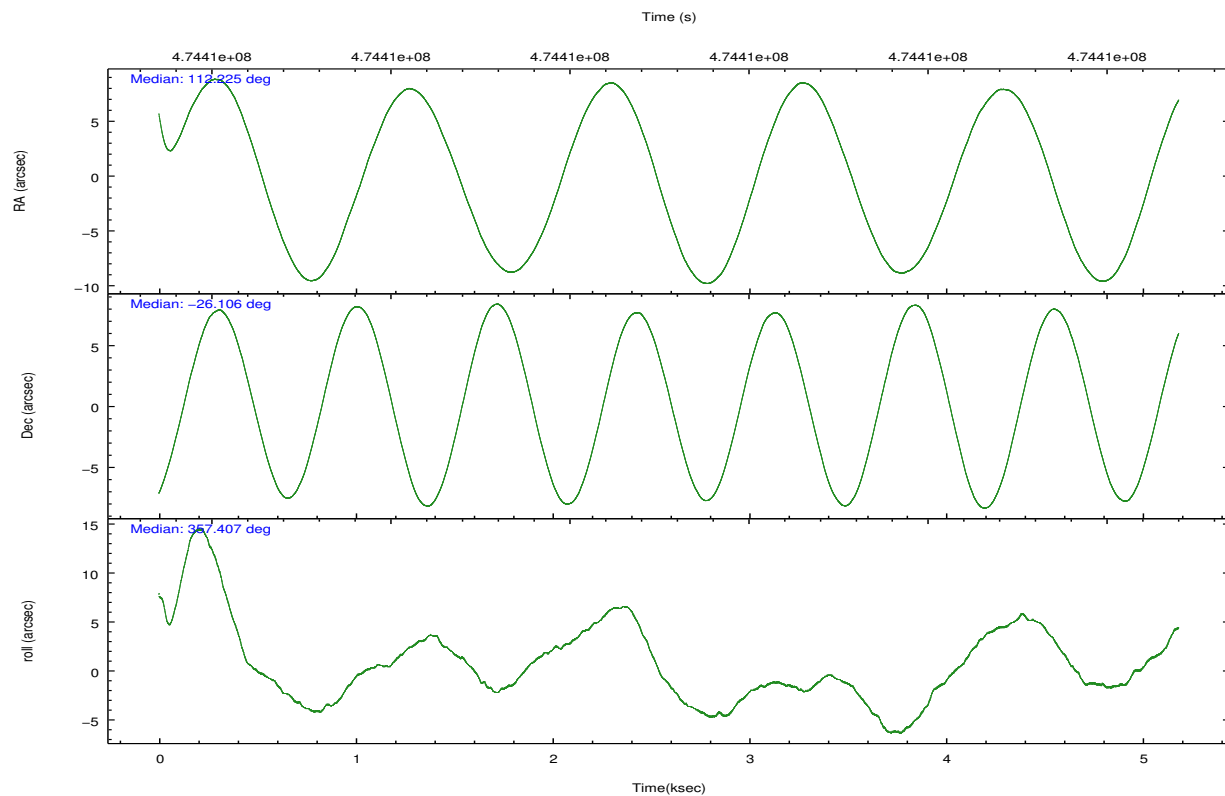
	ccd 7
grade 0 events	1555
	11%
grade 1 events	81
	0%
grade 2 events	2086
	15%
grade 3 events	1061
	7%
grade 4 events	1020
	7%
grade 5 events	1019
	7%
grade 6 events	3753
	28%
grade 7 events	2767
	20%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	112.198432	112.2253161779272	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-26.118493	-26.10556319937655	Subarray start row	449	449
[deg] Pointing Roll	357.244414	357.4128812965276	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	474409139.184000	474407916.58388			
Observation start date	2013-01-12T20:17:52	2013-01-12T19:58:36			
[s] Observation end time (MET)	474414139.184000	474414931.17176			
Observation end date	2013-01-12T21:41:12	2013-01-12T21:55:31			
Read mode	TIMED	TIMED			

2.3 Aspect



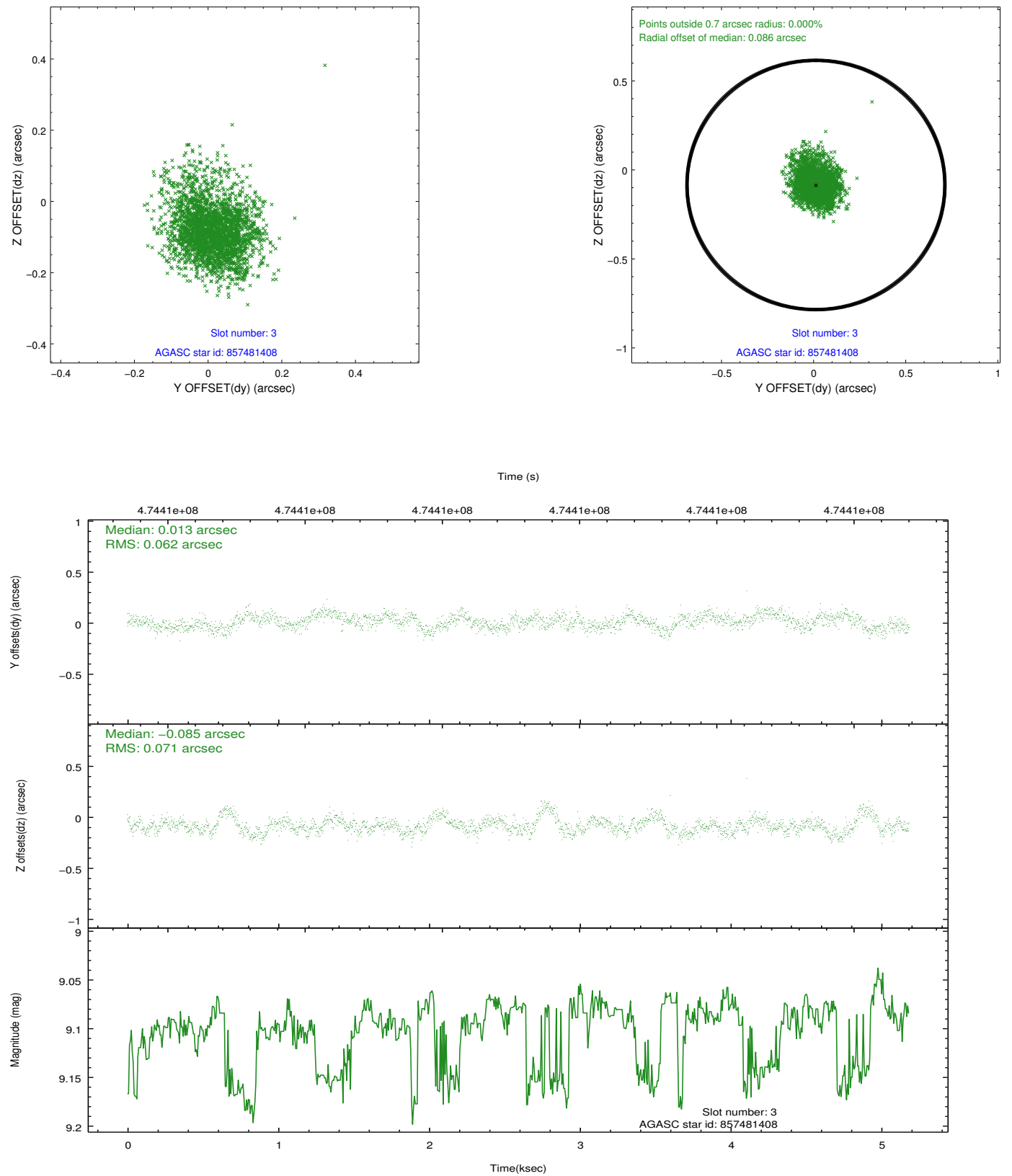


Slot Statistics

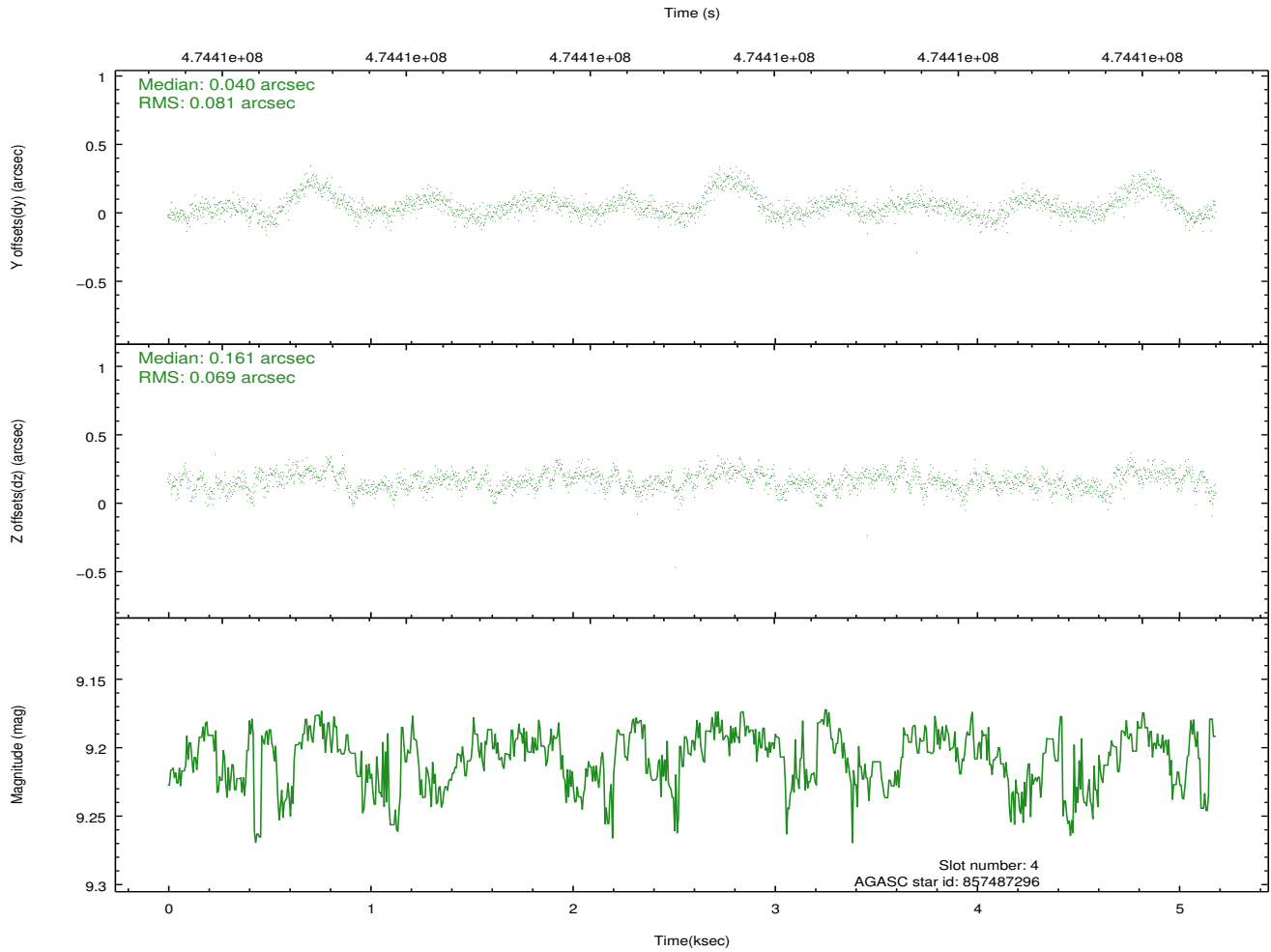
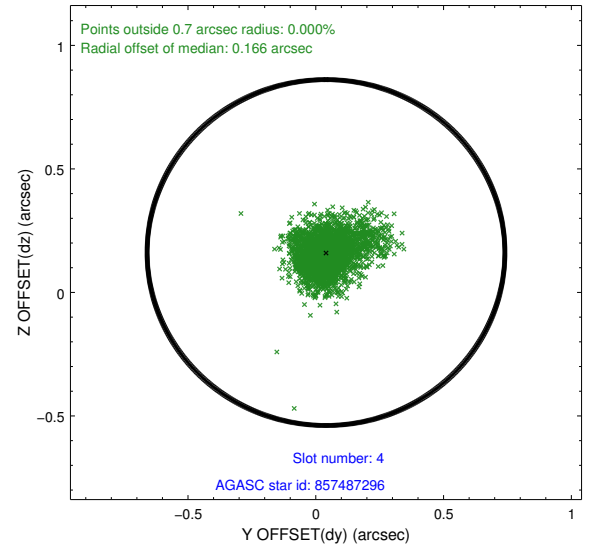
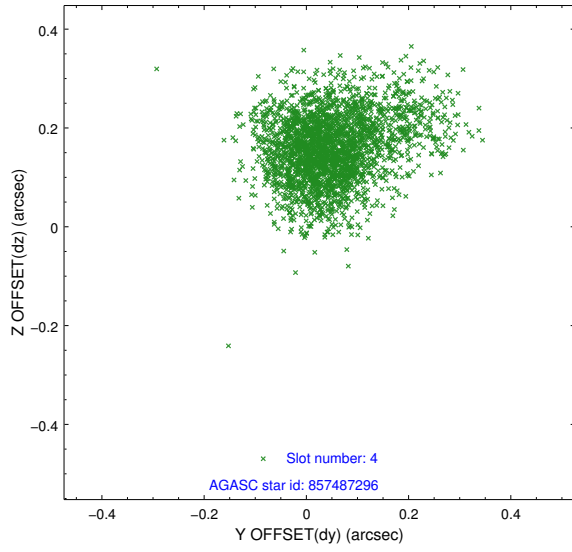
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.07	1265	0.222	-0.005	0.007	0.011	0.000000	0.000000	2145.62	172.72
1	FID		ACIS-S-5	7.10	1265	-0.245	-0.003	0.007	0.014	0.000000	0.000000	-1819.54	166.25
2	FID		ACIS-S-6	7.20	1265	-0.005	0.023	0.008	0.013	0.000000	0.000000	392.37	810.05
3	GUIDE	used	857481408	9.10	2514	0.013	-0.085	0.097	0.167	111.617693	-25.926792	-1910.96	594.78
4	GUIDE	used	857487296	9.21	2519	0.040	0.161	0.107	0.192	111.798516	-25.928385	-1326.73	619.91
5	GUIDE	used	857490528	8.77	2526	-0.198	-0.175	0.072	0.115	112.948840	-25.630604	2348.05	1865.14
6	GUIDE	used	858024096	8.82	2526	0.142	-0.051	0.114	0.182	112.052806	-26.438584	-412.16	-1172.91
7	GUIDE	used	858012320	9.27	2525	-0.003	0.145	0.100	0.155	112.096273	-26.799482	-209.83	-2464.70

2.4 Star Slots

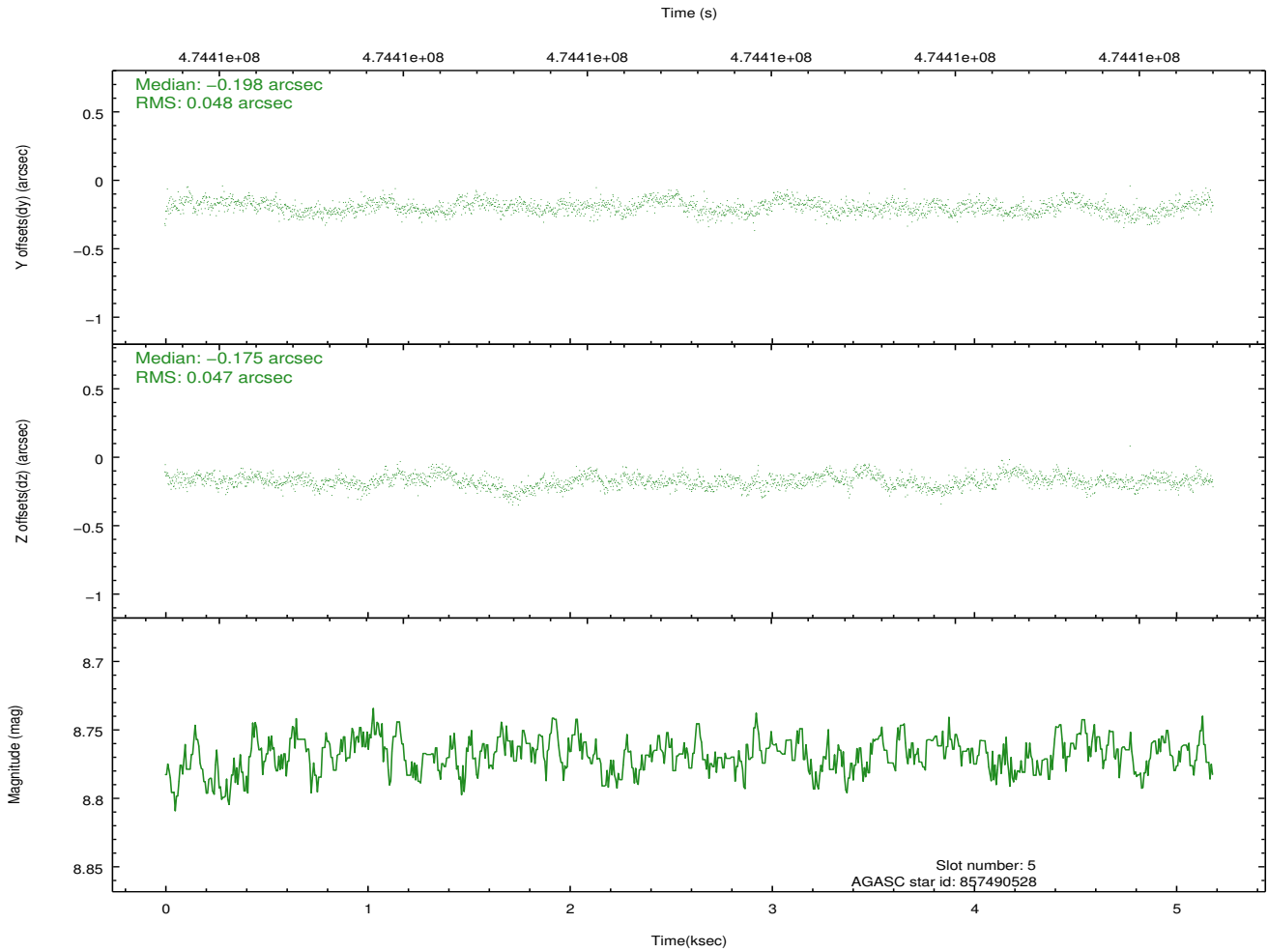
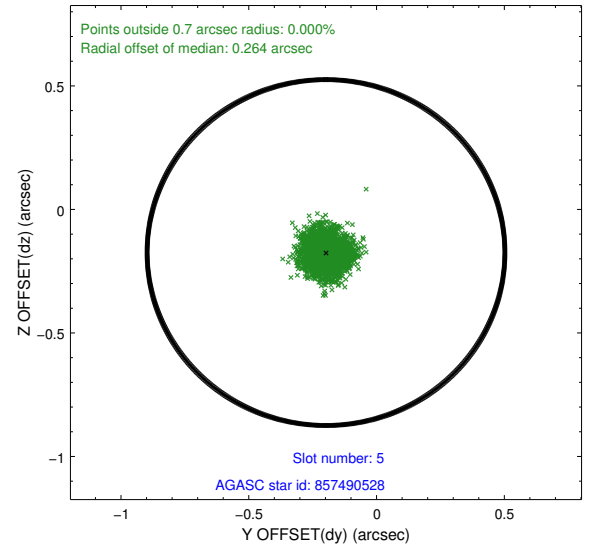
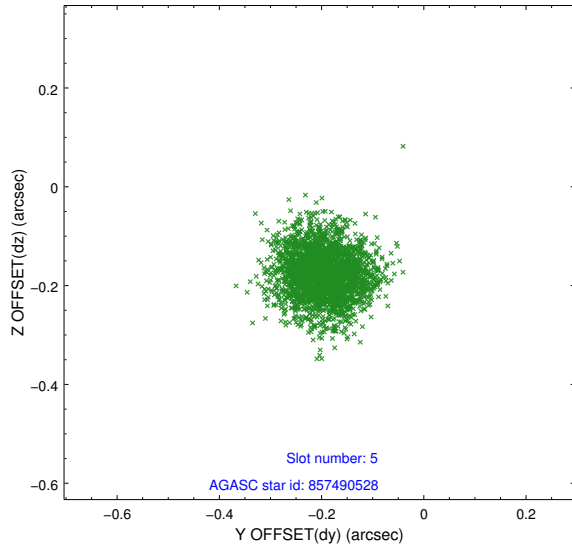
2.4.1 Slot 3



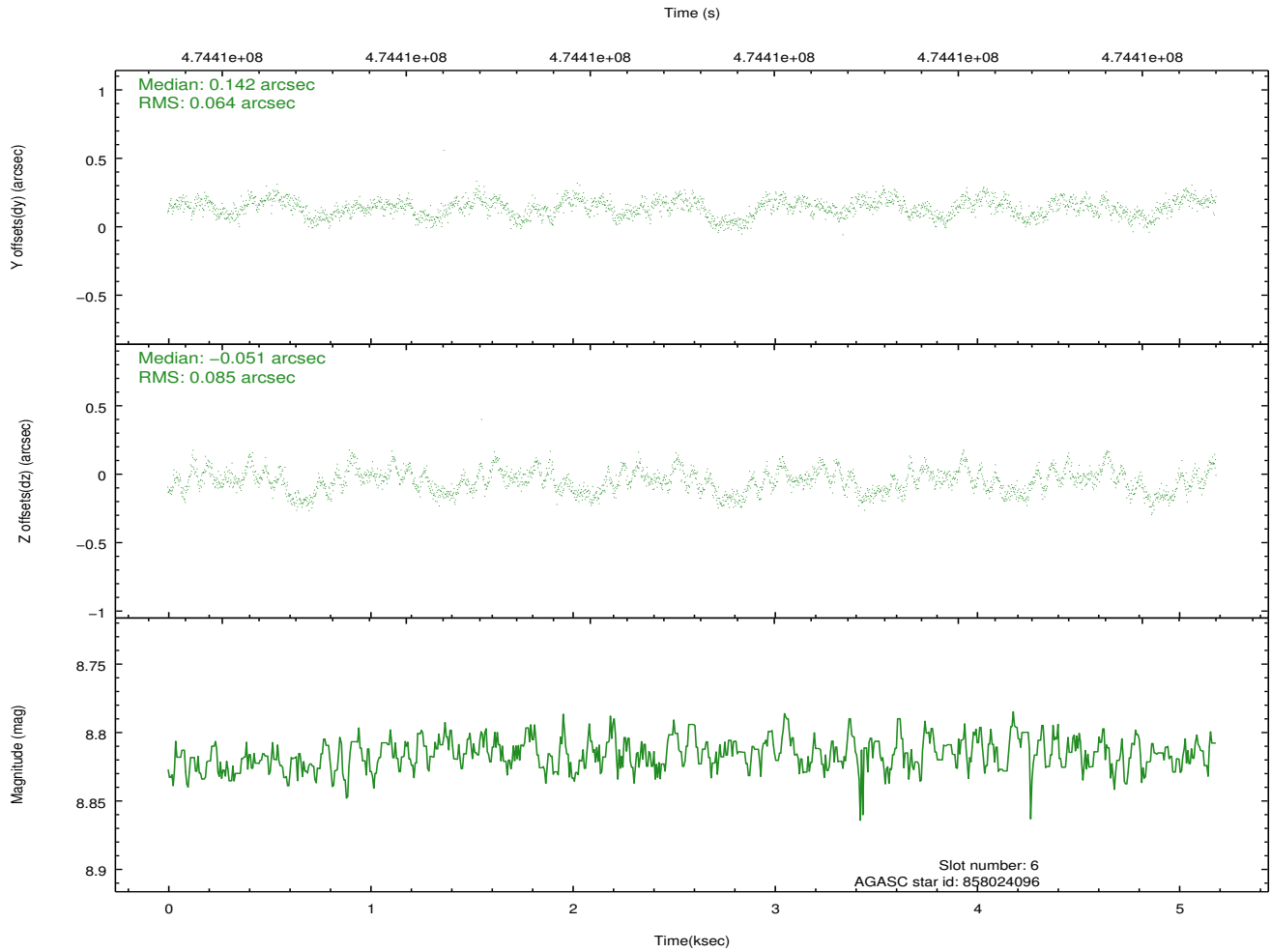
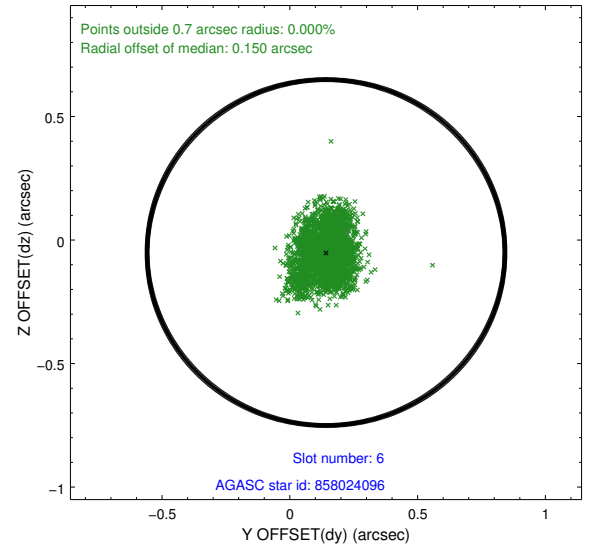
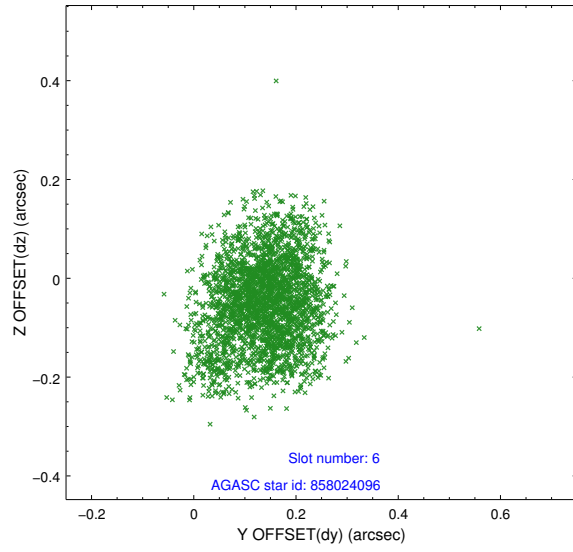
2.4.2 Slot 4



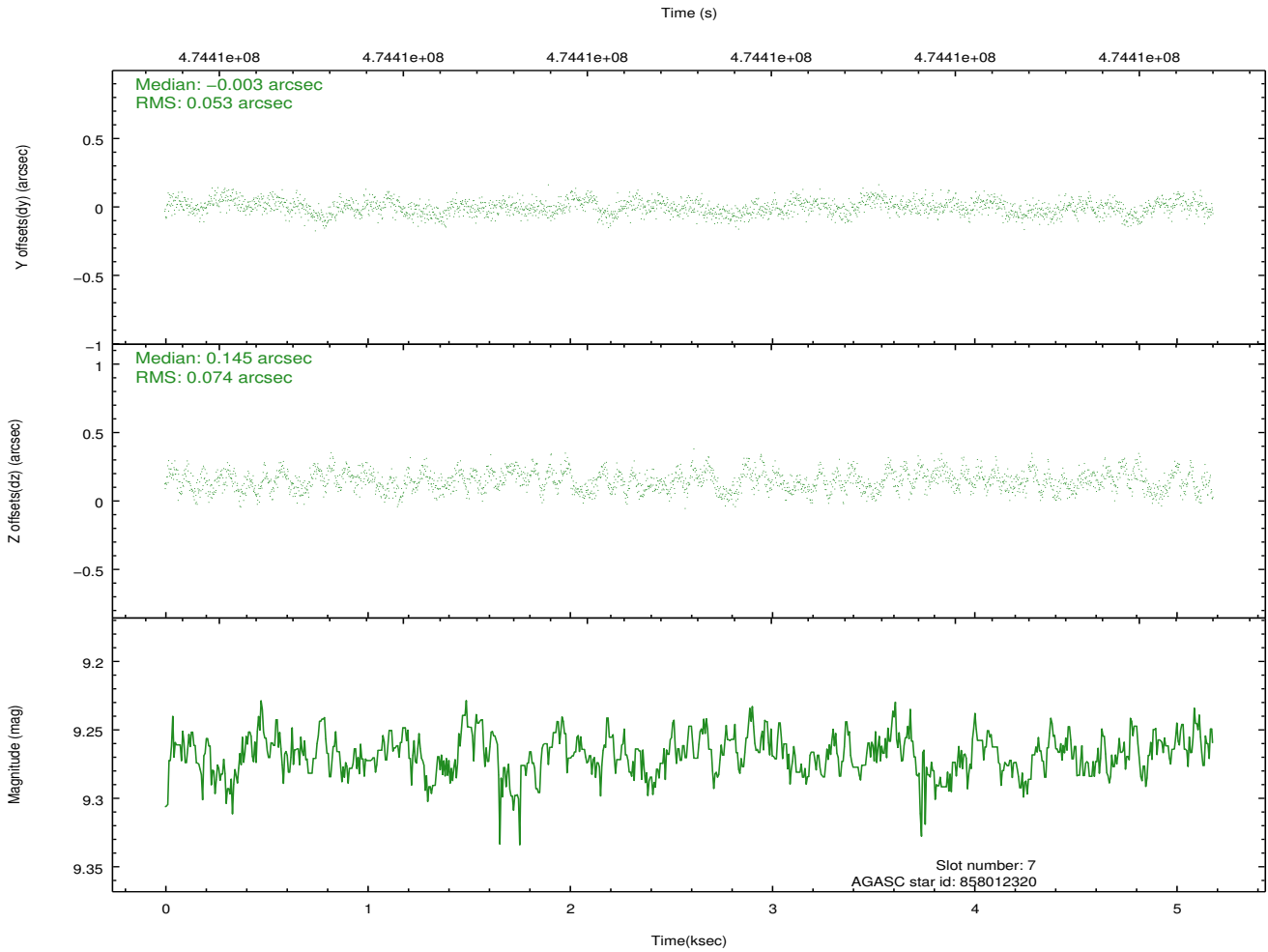
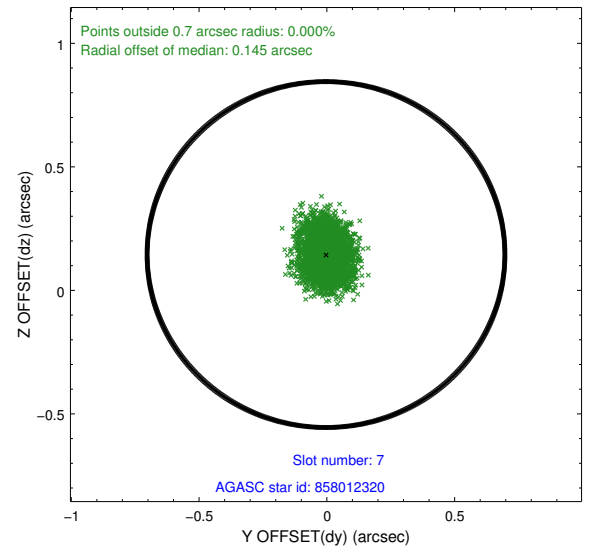
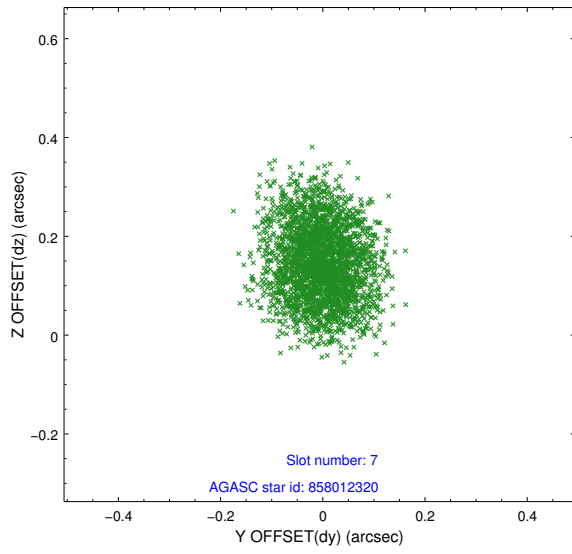
2.4.3 Slot 5



2.4.4 Slot 6

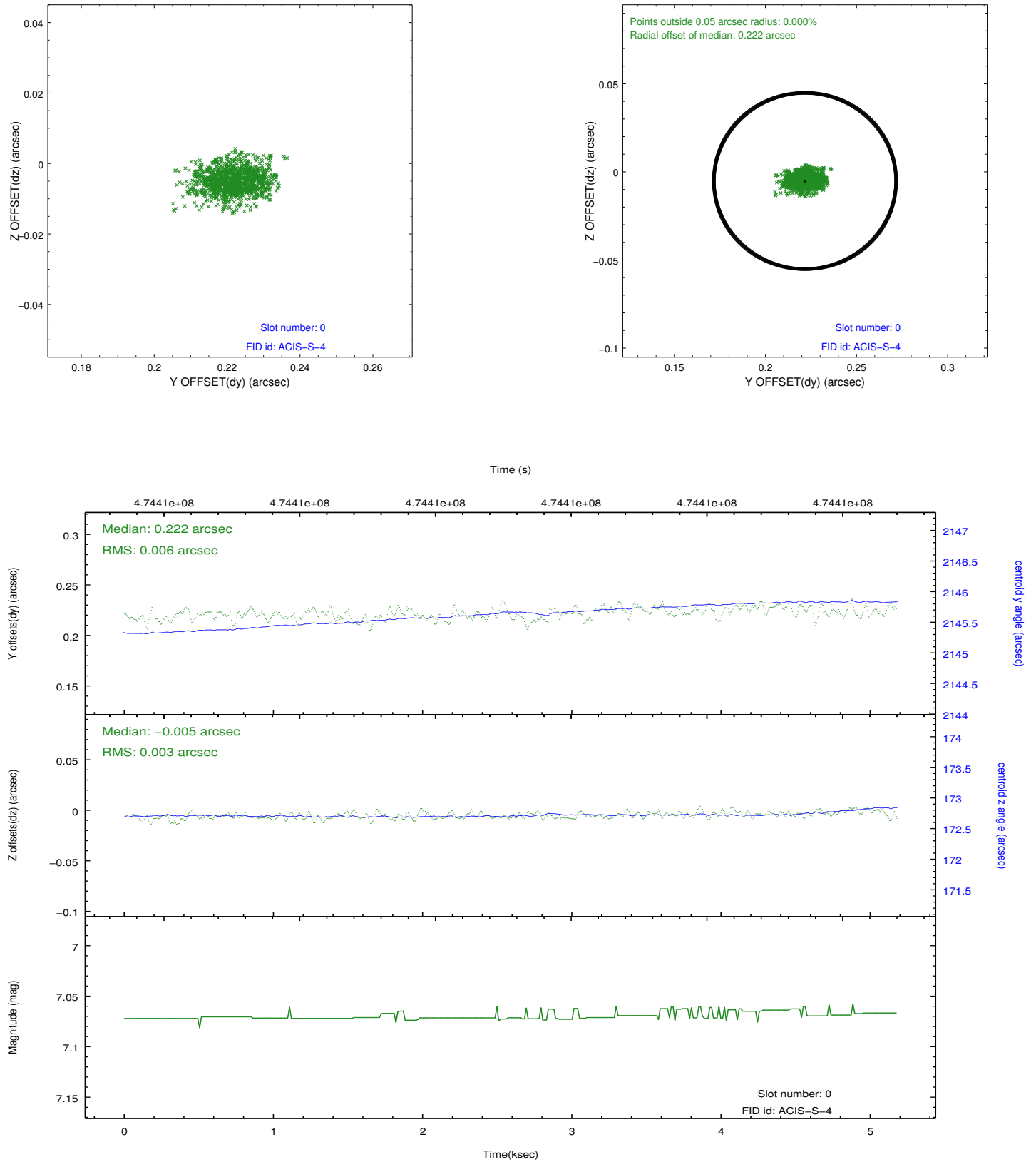


2.4.5 Slot 7

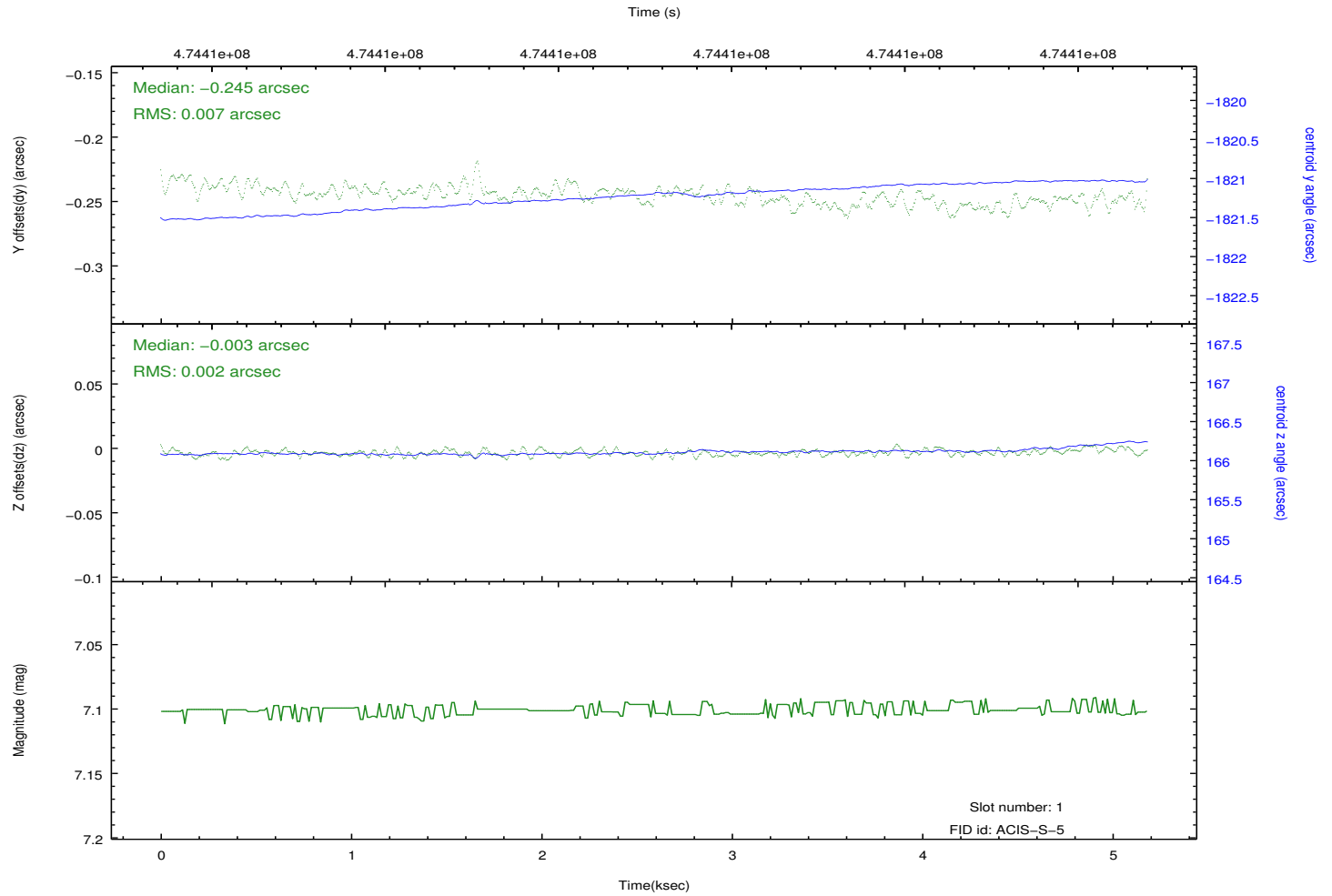
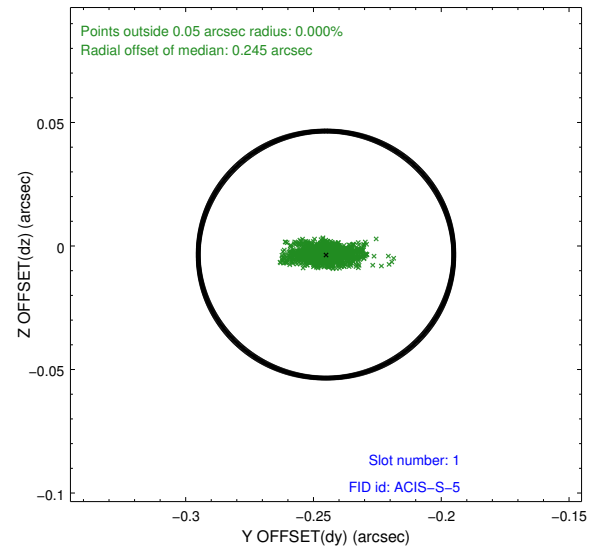
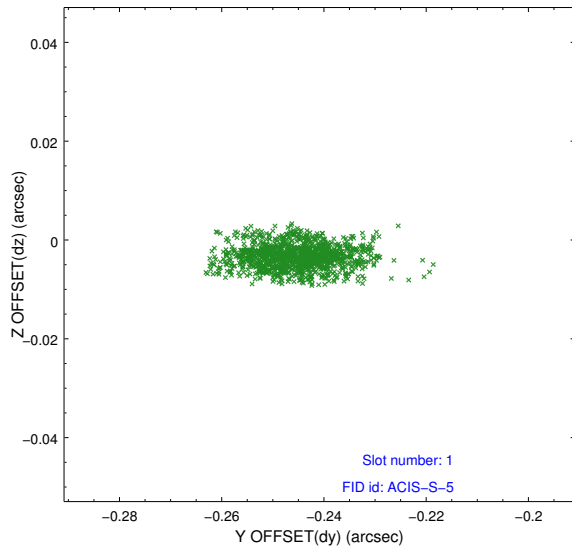


2.5 FID Slots

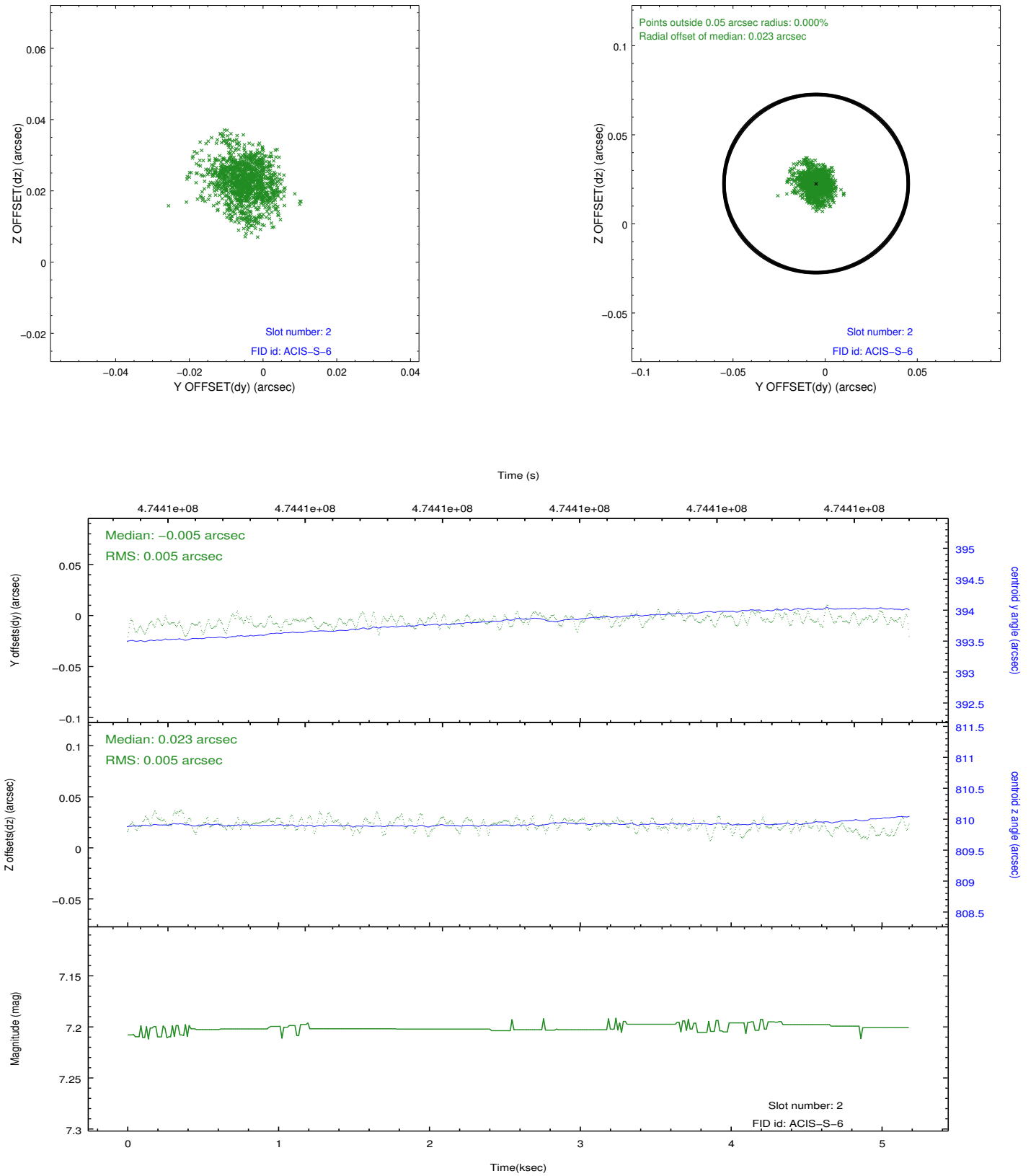
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0699996978045

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.