

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 15335 - L2 Version 2
Chandra X-Ray Center

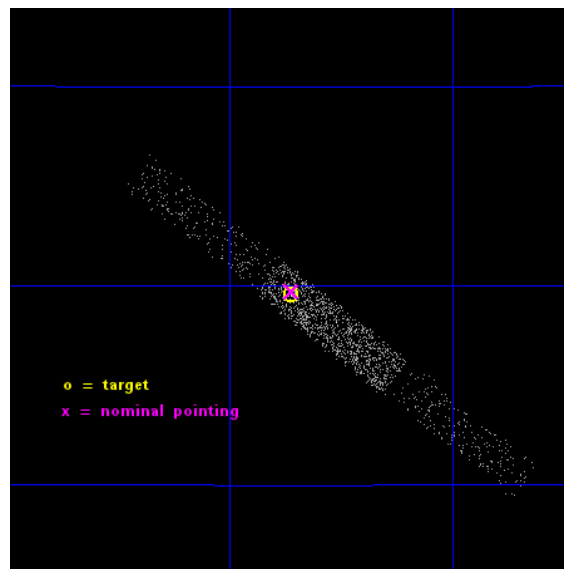
L2 Processing Date : Nov 29 2014

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

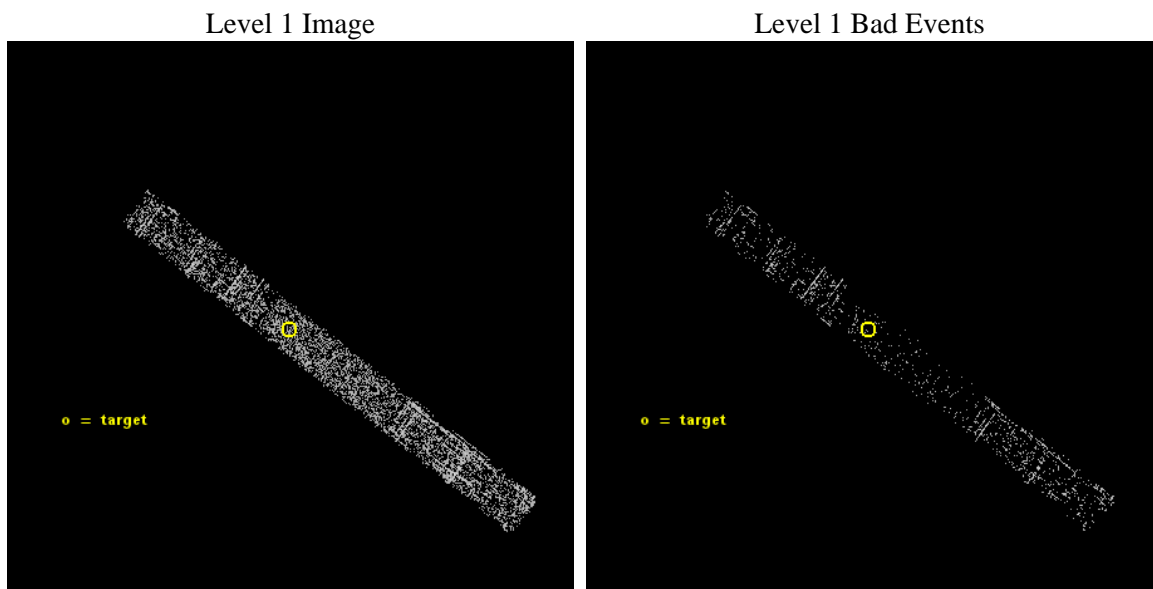
seq_num	702895	Sequence number
obs_id	15335	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1429+3859	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.431667	Observer's specified target RA [deg]
dec_targ	38.992278	Observer's specified target Dec [deg]
ra_nom	217.4308676716	Nominal RA [deg]
dec_nom	38.995248877572	Nominal Dec [deg]
roll_nom	37.384591246736	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1592.9999577999	Sum of GTIs [s]
livetime	1523.5271210787	Livetime [s]
ontime6	1592.9999577999	Sum of GTIs [s]
ontime7	1592.9999577999	Sum of GTIs [s]
ontime8	1592.9999577999	Sum of GTIs [s]
l2events	1685	Number of level 2 events



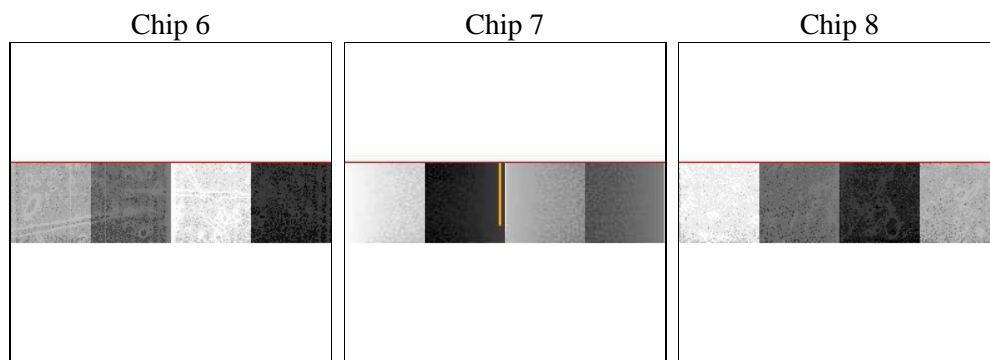
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1592.9999577999	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	1592.9999577999	Sum of GTIs [s]
date	2014-11-30T02:35:12	Date and time of file creation	ontime7	1592.9999577999	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1592.9999577999	Sum of GTIs [s]
			l1events	8509	Number of level 1 events

2.1.4 Events

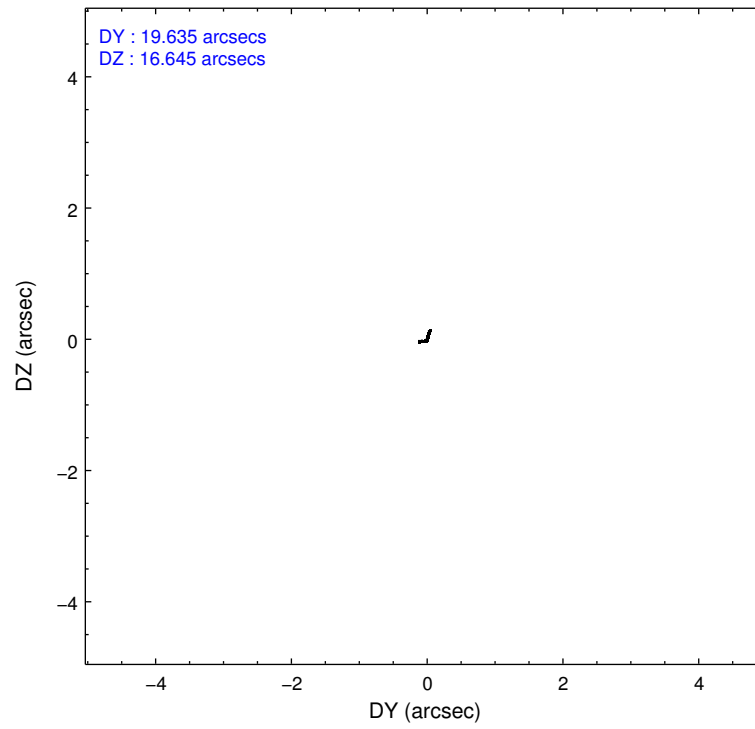
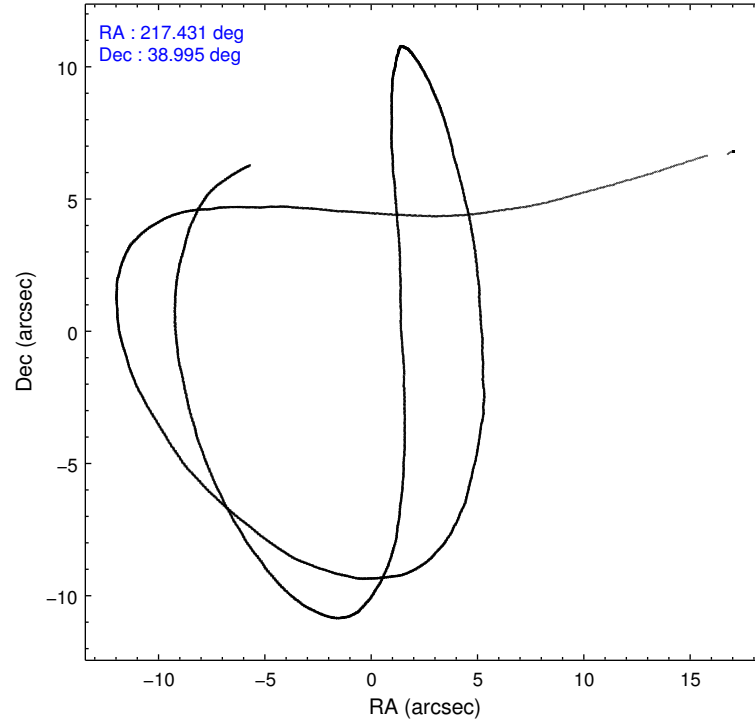
	ccd 6	ccd 7	ccd 8
level 1 events	2446	2534	3529
rejected events	2155	1250	2589
rejected %	88%	49%	73%

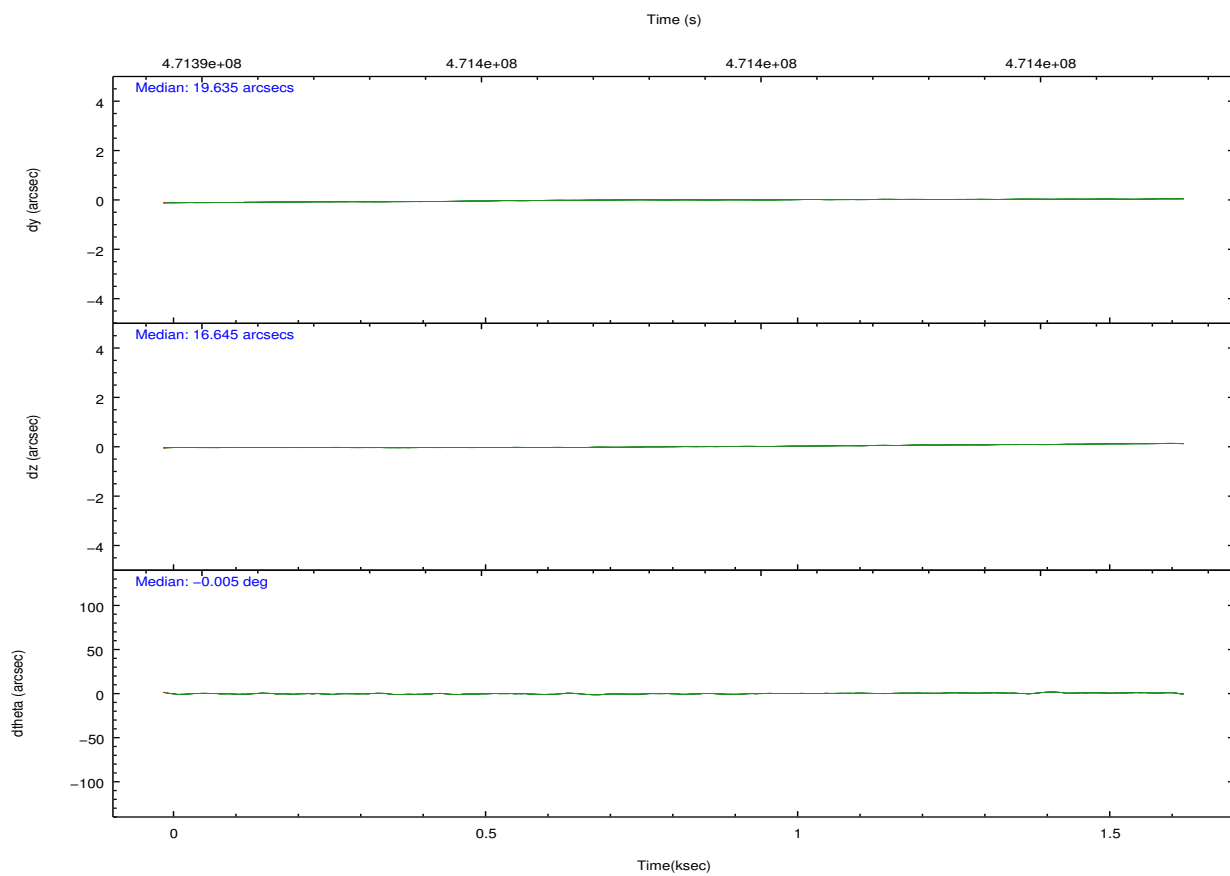
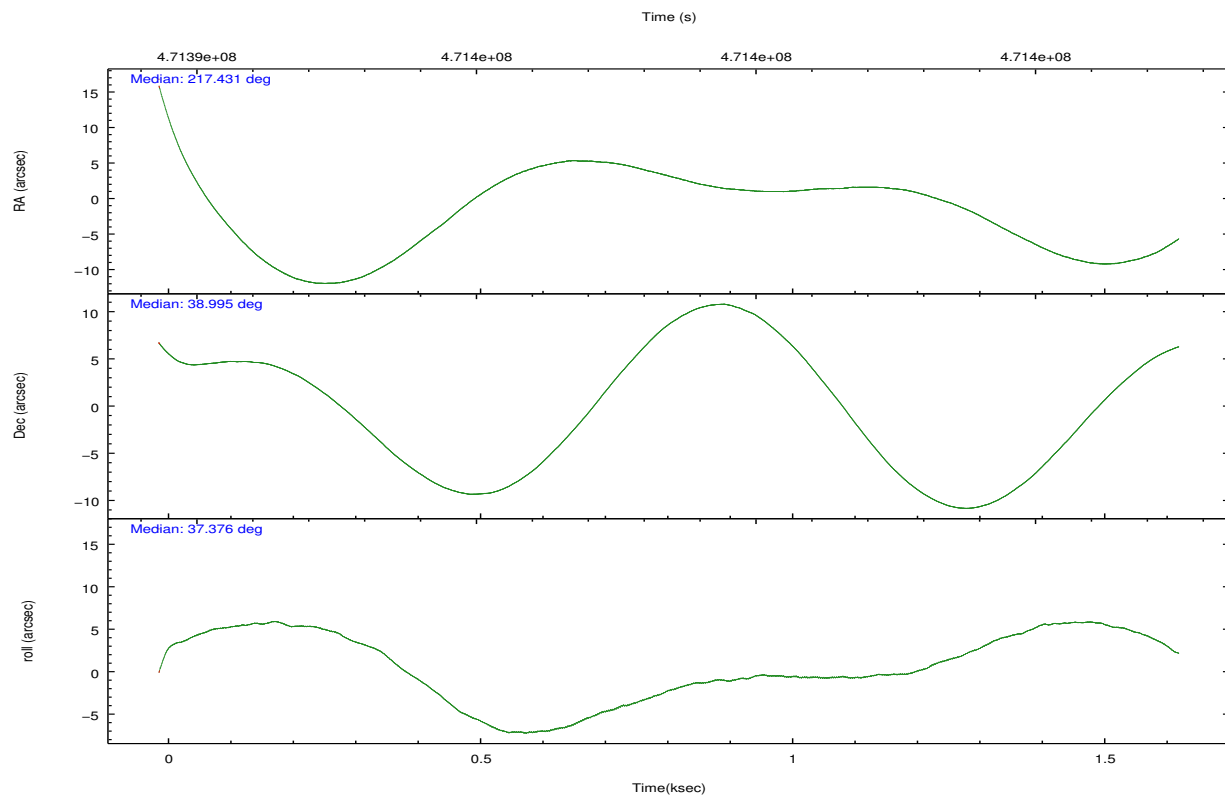
	ccd 6	ccd 7	ccd 8
grade 0 events	93	160	228
	3%	6%	6%
grade 1 events	2	5	2
	0%	0%	0%
grade 2 events	56	239	207
	2%	9%	5%
grade 3 events	45	135	141
	1%	5%	3%
grade 4 events	43	149	115
	1%	5%	3%
grade 5 events	87	288	119
	3%	11%	3%
grade 6 events	54	601	250
	2%	23%	7%
grade 7 events	2066	957	2467
	84%	37%	69%

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	217.418257	217.4308676716015	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	38.969919	38.99524887757165	Subarray start row	385	385
[deg] Pointing Roll	37.235846	37.3845912467358	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)	471394647.184000	471393589.24646			
Observation start date	2012-12-08T22:56:20	2012-12-08T22:39:49			
[s] Observation end time (MET)	471396147.184000	471397019.92164			
Observation end date	2012-12-08T23:21:20	2012-12-08T23:36:59			
Read mode	TIMED	TIMED			

2.3 Aspect



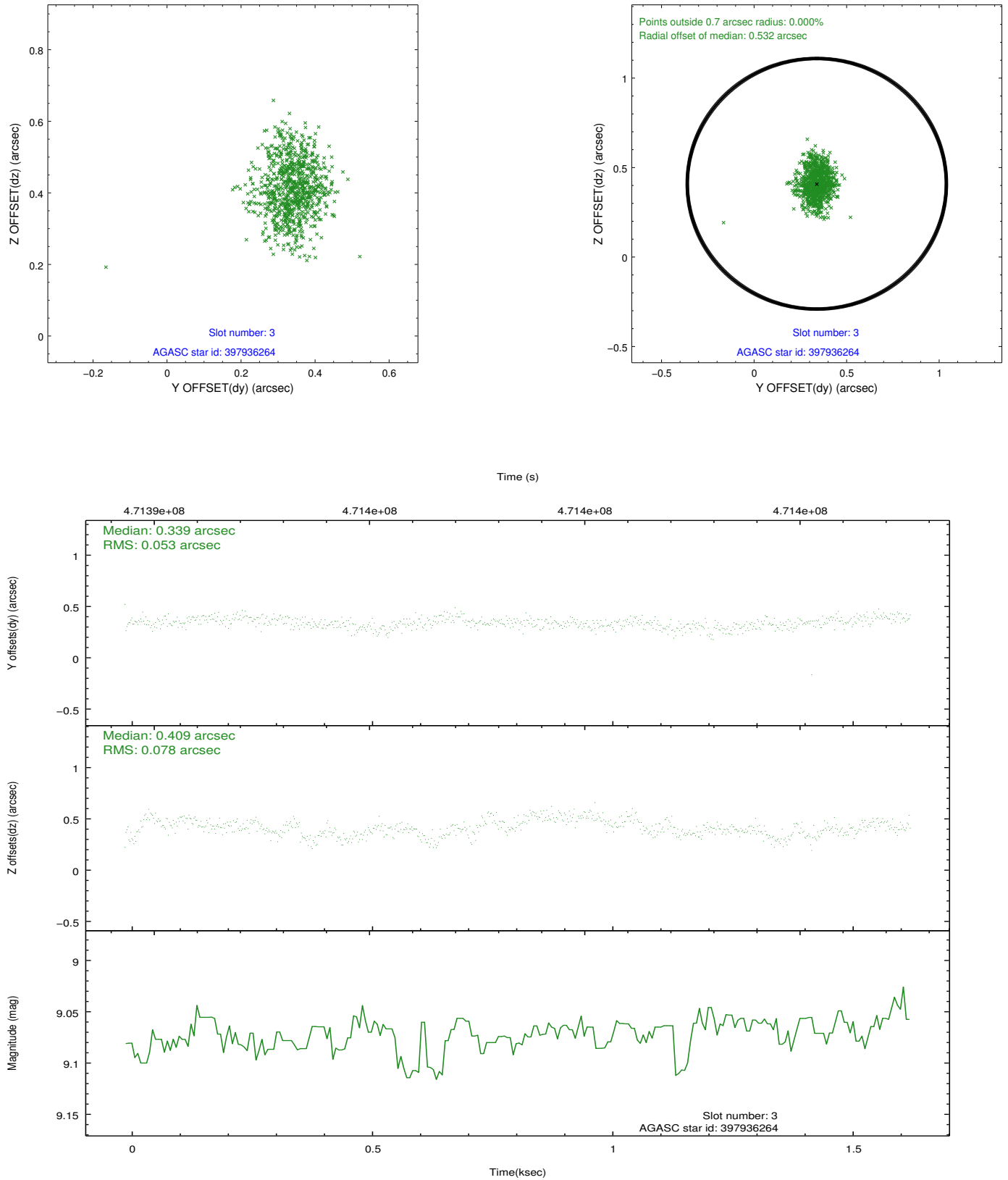


Slot Statistics

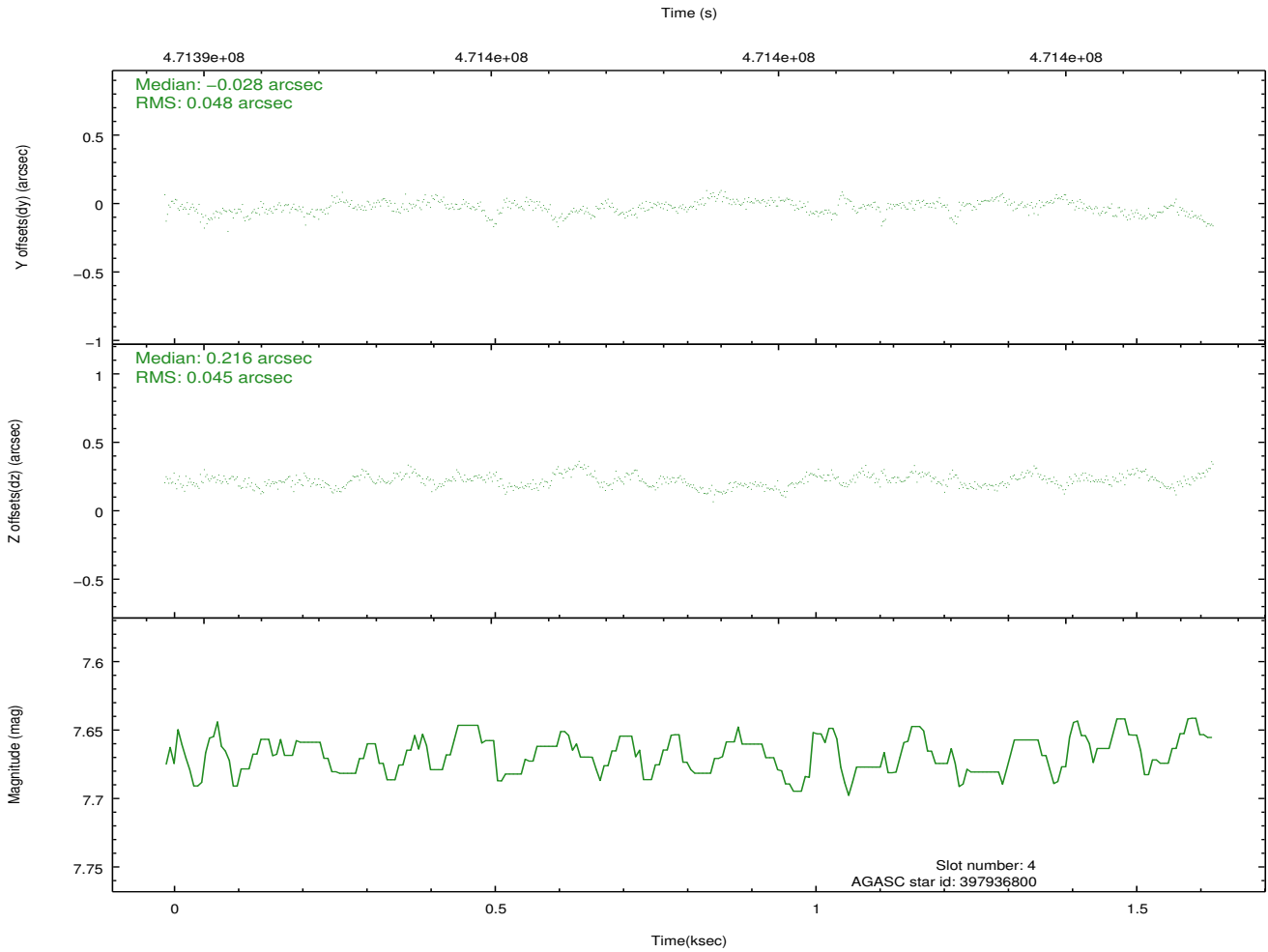
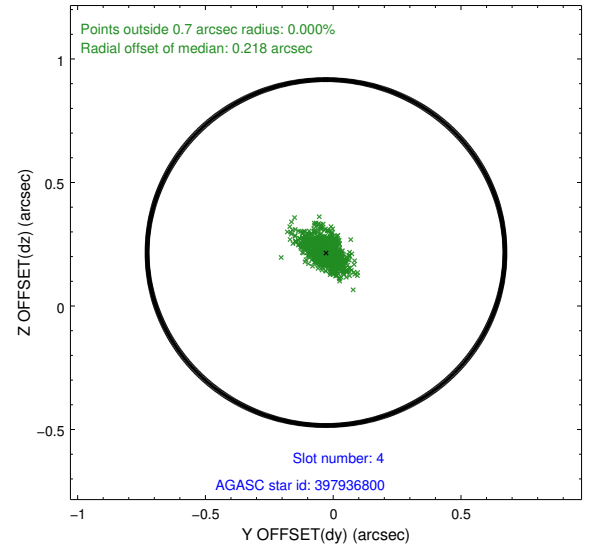
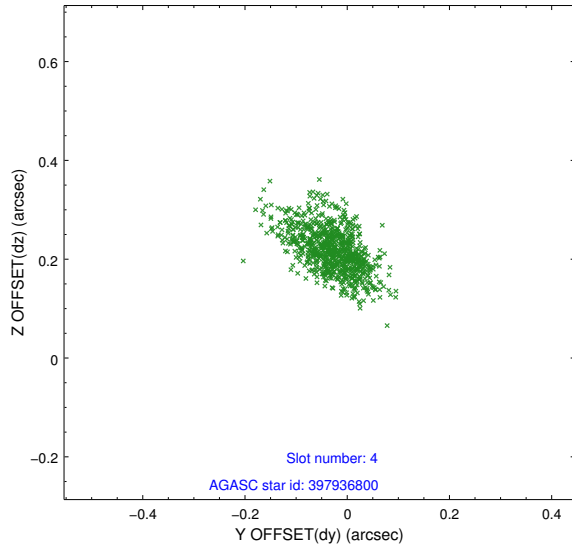
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.02	399	0.030	-0.053	0.006	0.010	0.000000	0.000000	923.35	-1733.72
1	FID		ACIS-S-4	7.03	399	0.192	0.027	0.006	0.009	0.000000	0.000000	2143.14	166.34
2	FID		ACIS-S-5	7.06	399	-0.249	0.038	0.005	0.009	0.000000	0.000000	-1820.63	164.52
3	GUIDE	used	397936264	9.07	798	0.339	0.409	0.099	0.159	217.601176	38.510653	-588.89	-1628.12
4	GUIDE	used	397936800	7.67	798	-0.028	0.216	0.067	0.119	218.492606	38.939428	2340.37	-1895.78
5	BAD	used	397939208	5.65	396	-0.396	0.120	0.058	0.090	217.438607	38.861297	-183.64	-351.52
6	GUIDE	used	397938216	7.25	798	-0.184	-0.394	0.076	0.111	217.230209	39.618713	999.30	2174.32
7	GUIDE	used	397938440	9.05	797	0.075	-0.298	0.094	0.151	217.392668	39.790420	1732.28	2397.26

2.4 Star Slots

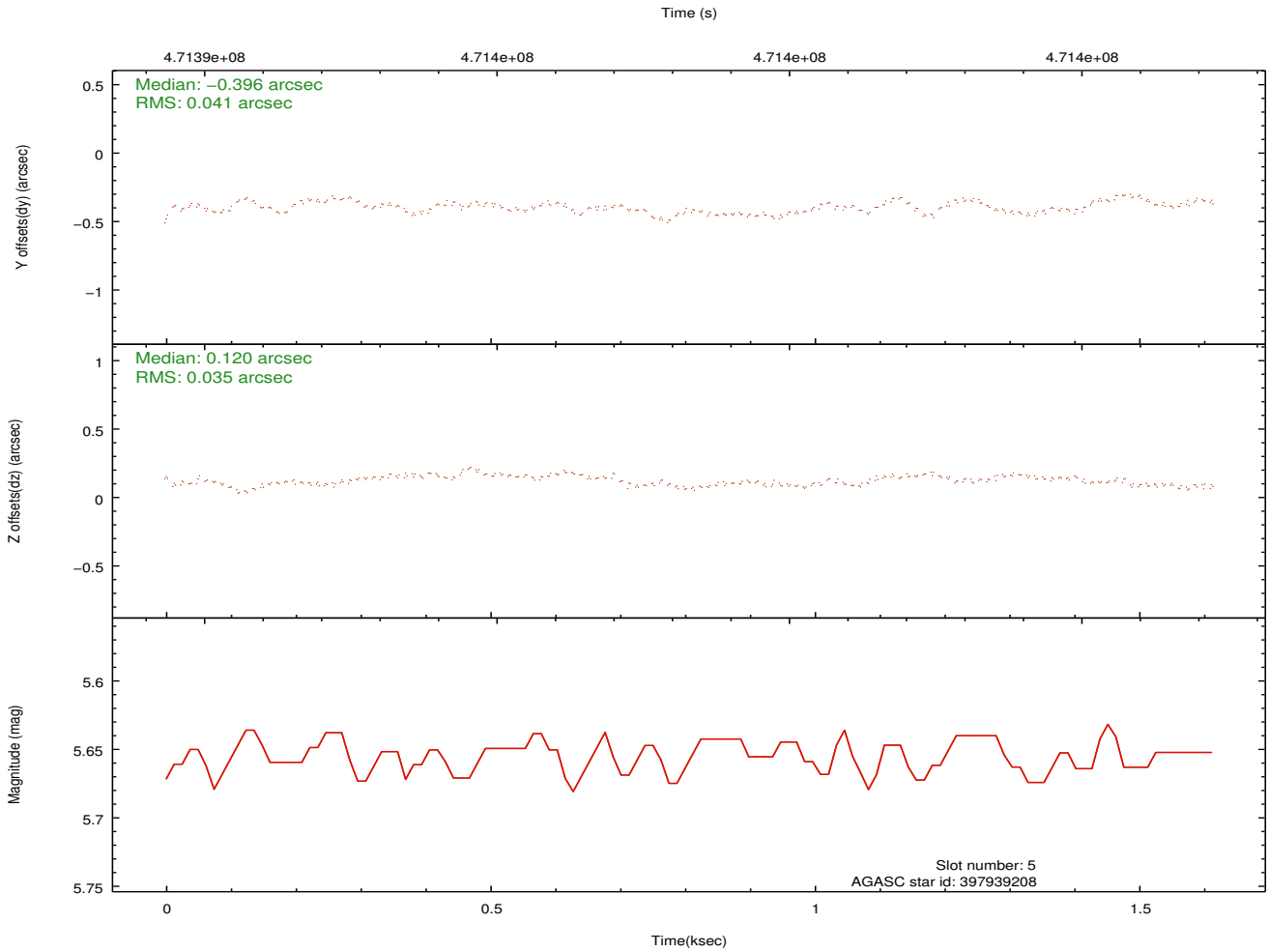
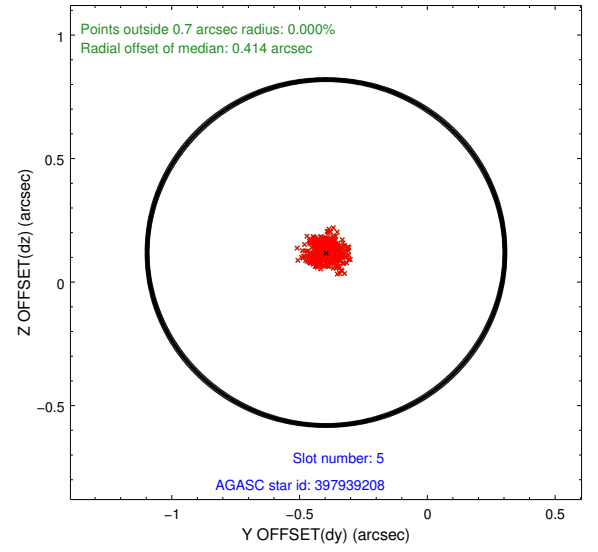
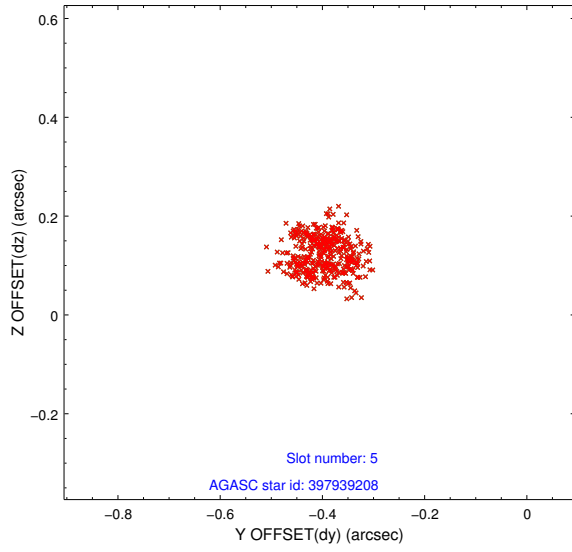
2.4.1 Slot 3



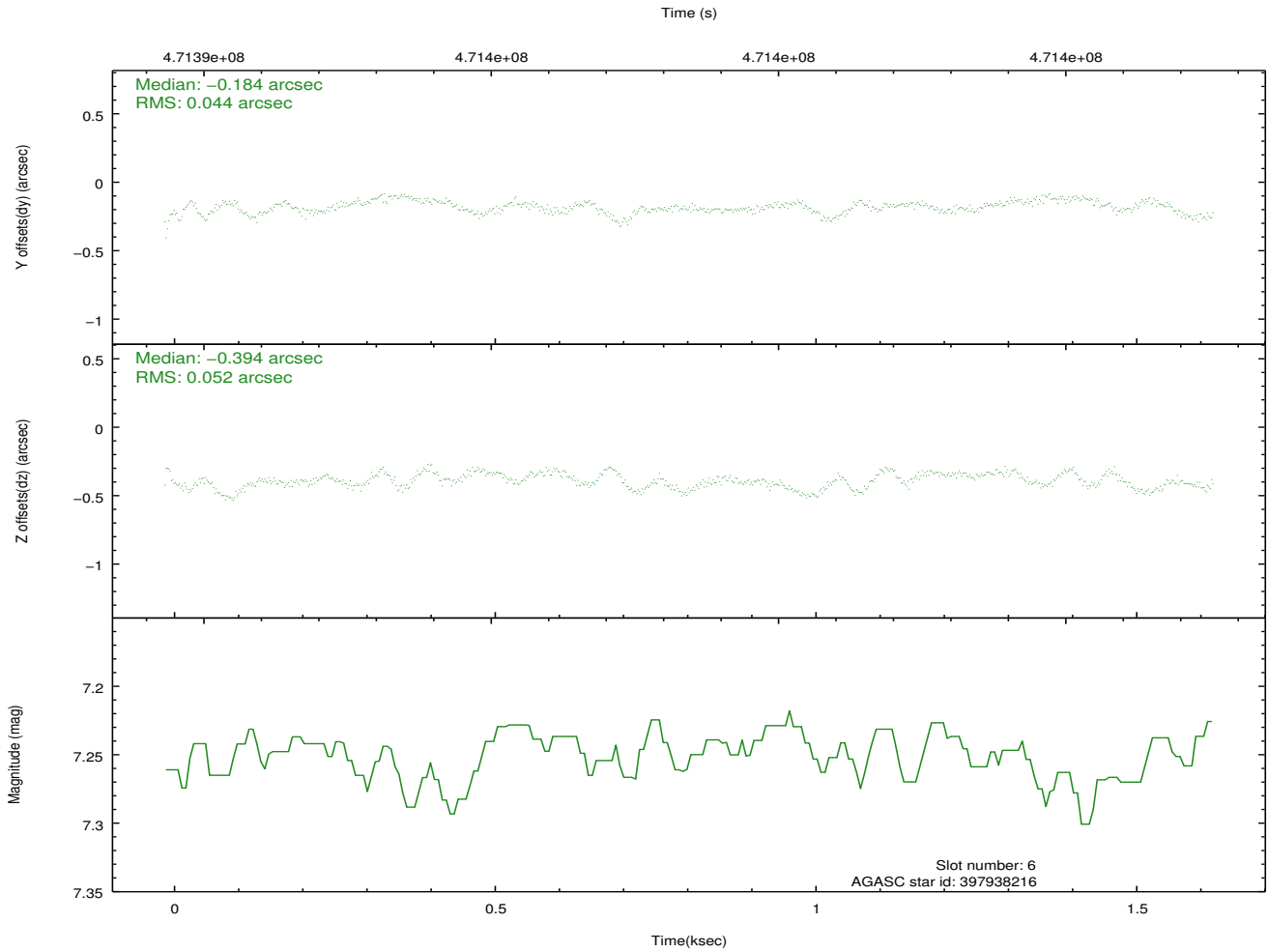
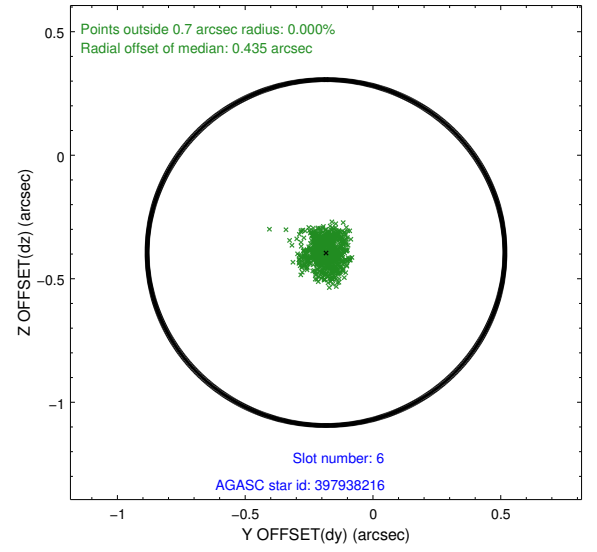
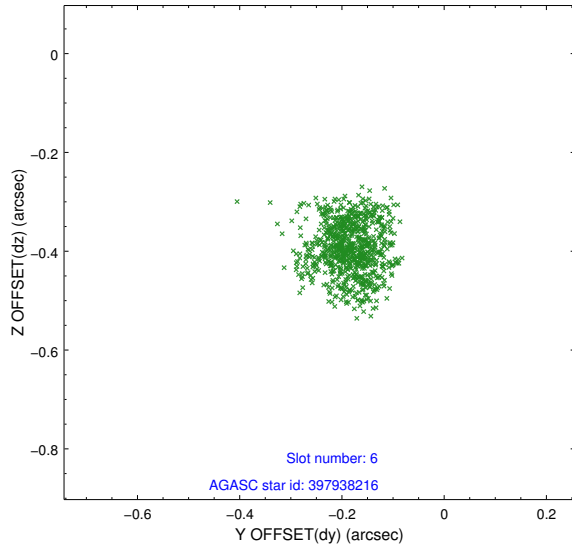
2.4.2 Slot 4



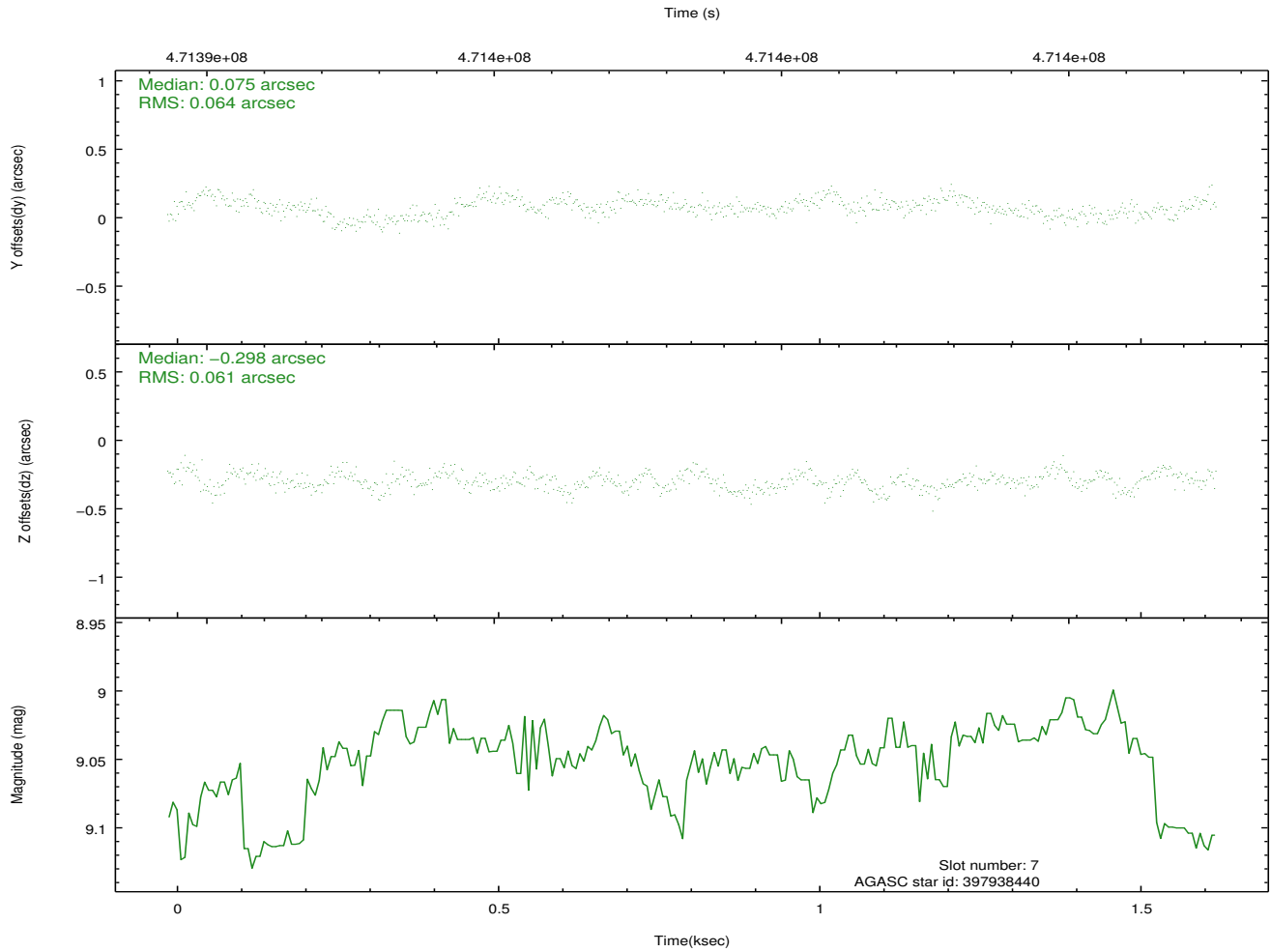
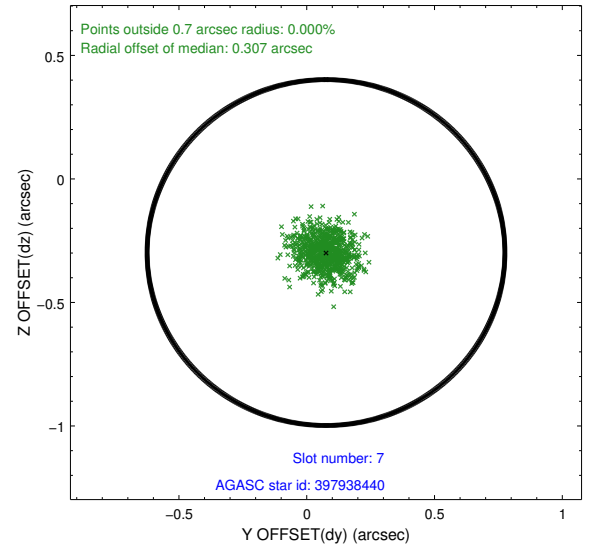
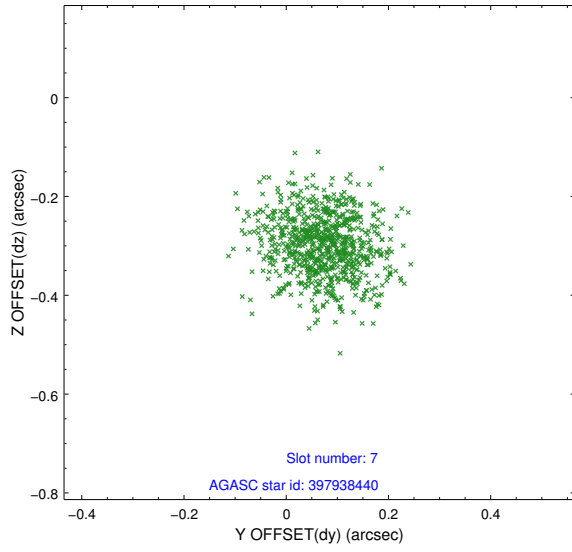
2.4.3 Slot 5



2.4.4 Slot 6

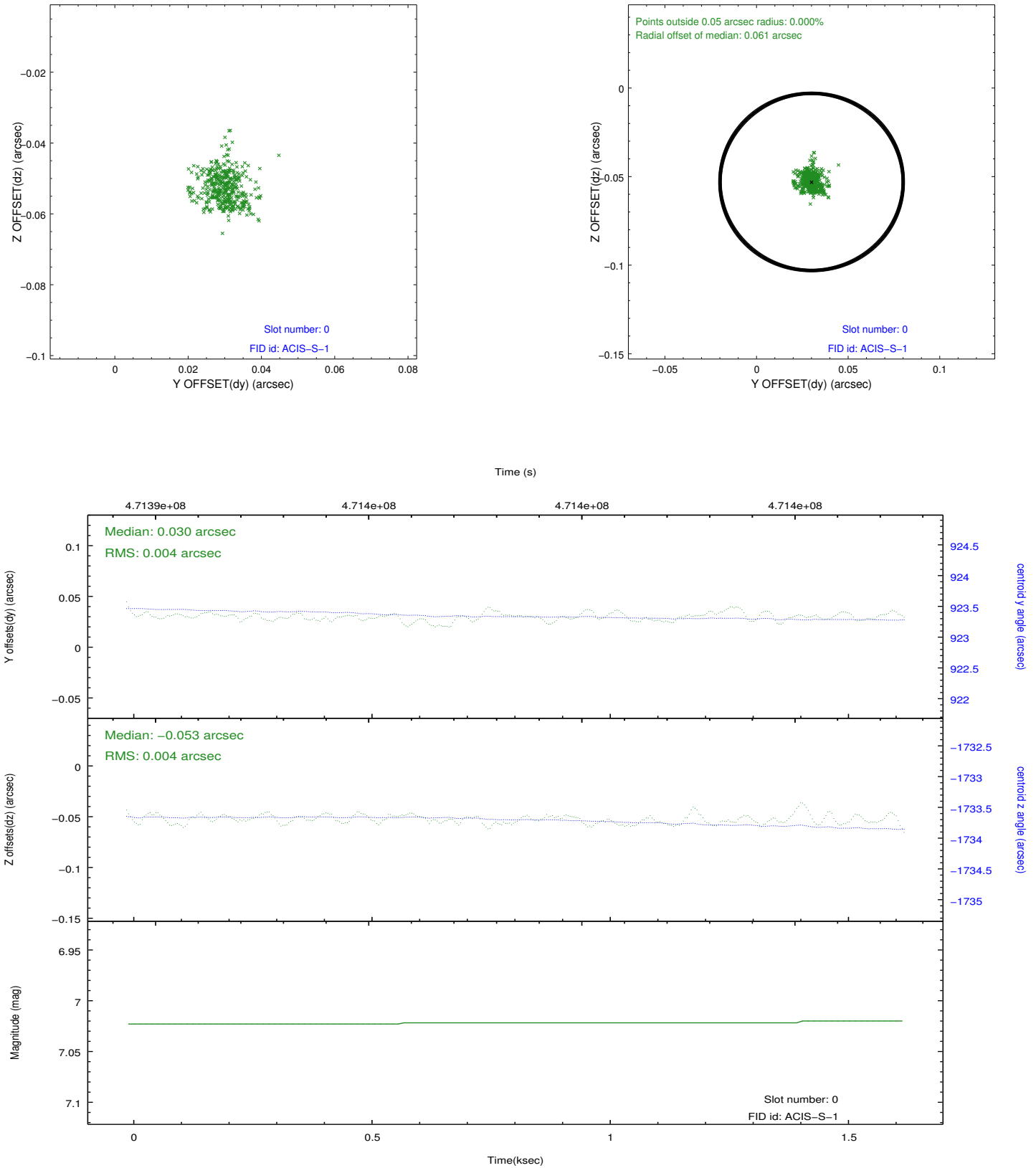


2.4.5 Slot 7

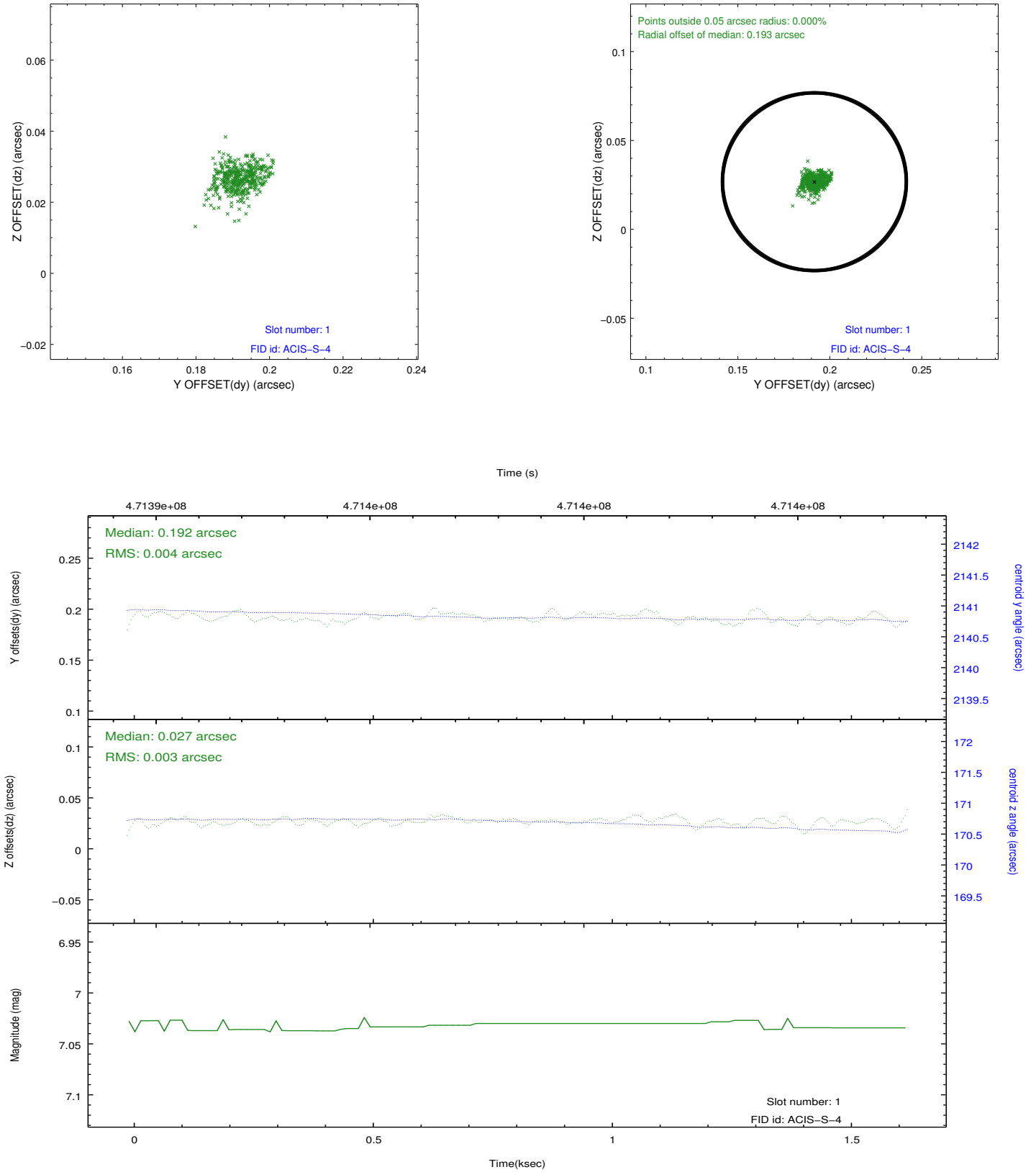


2.5 FID Slots

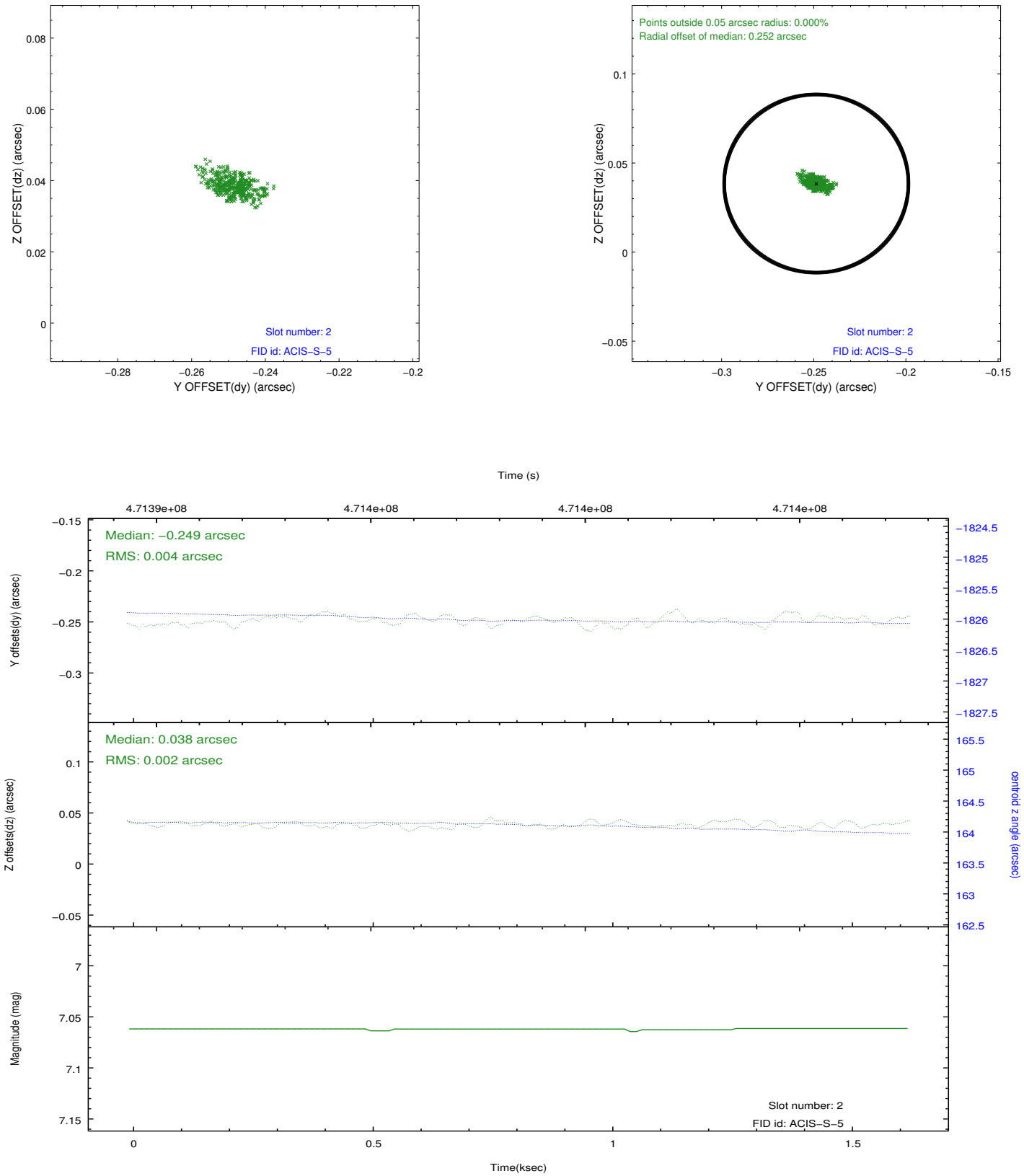
2.5.1 Slot 0



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	1.5929999577999

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.