

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13952 - L2 Version 2
Chandra X-Ray Center

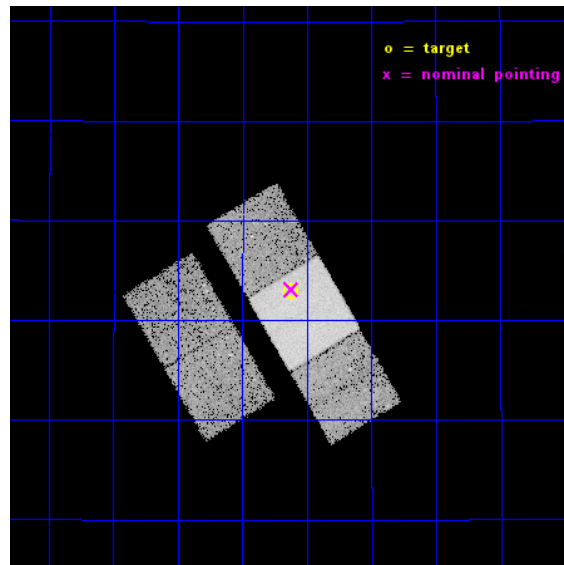
L2 Processing Date : Nov 27 2014

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1 Front

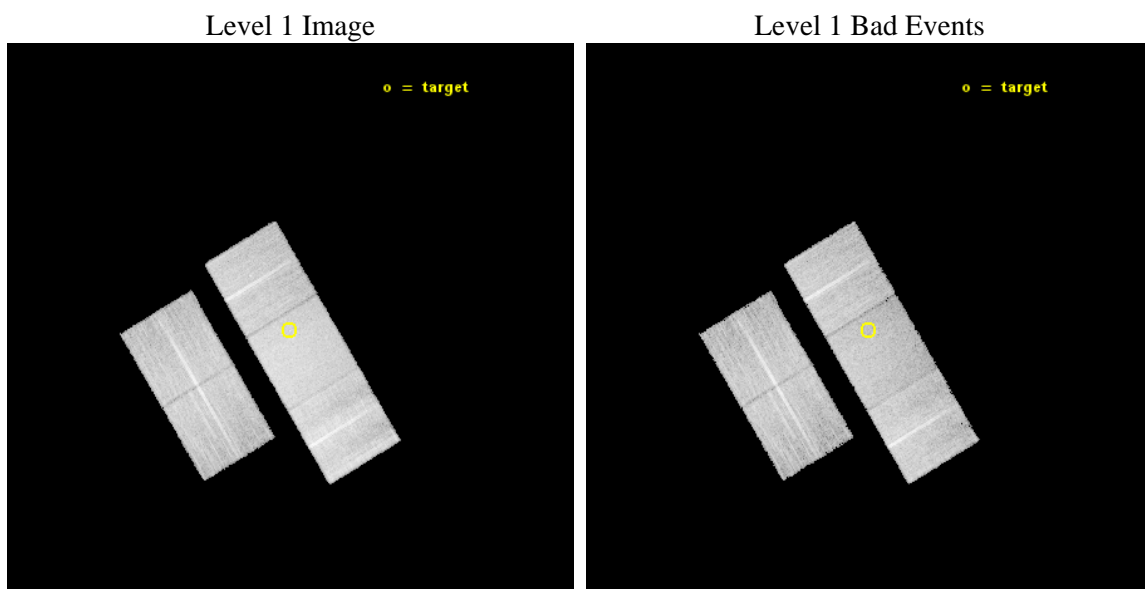
seq_num	702674	Sequence number
obs_id	13952	Observation id
title	Identifying Analogs of NGC 6240: Galaxies with Dual Supermassive Black Holes	Proposal title
observer	Dr. Julia Comerford	Principal investigator
object	SDSS J095207.62+255257.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.031667	Observer's specified target RA [deg]
dec_targ	25.882556	Observer's specified target Dec [deg]
ra_nom	148.03018208652	Nominal RA [deg]
dec_nom	25.885250977095	Nominal Dec [deg]
roll_nom	59.301840309051	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.400154352	Sum of GTIs [s]
livetime	19807.178666458	Livetime [s]
ontime2	20066.259154022	Sum of GTIs [s]
ontime3	20069.400154352	Sum of GTIs [s]
ontime6	20069.400154352	Sum of GTIs [s]
ontime7	20069.400154352	Sum of GTIs [s]
ontime8	20066.259184003	Sum of GTIs [s]
l2events	103839	Number of level 2 events



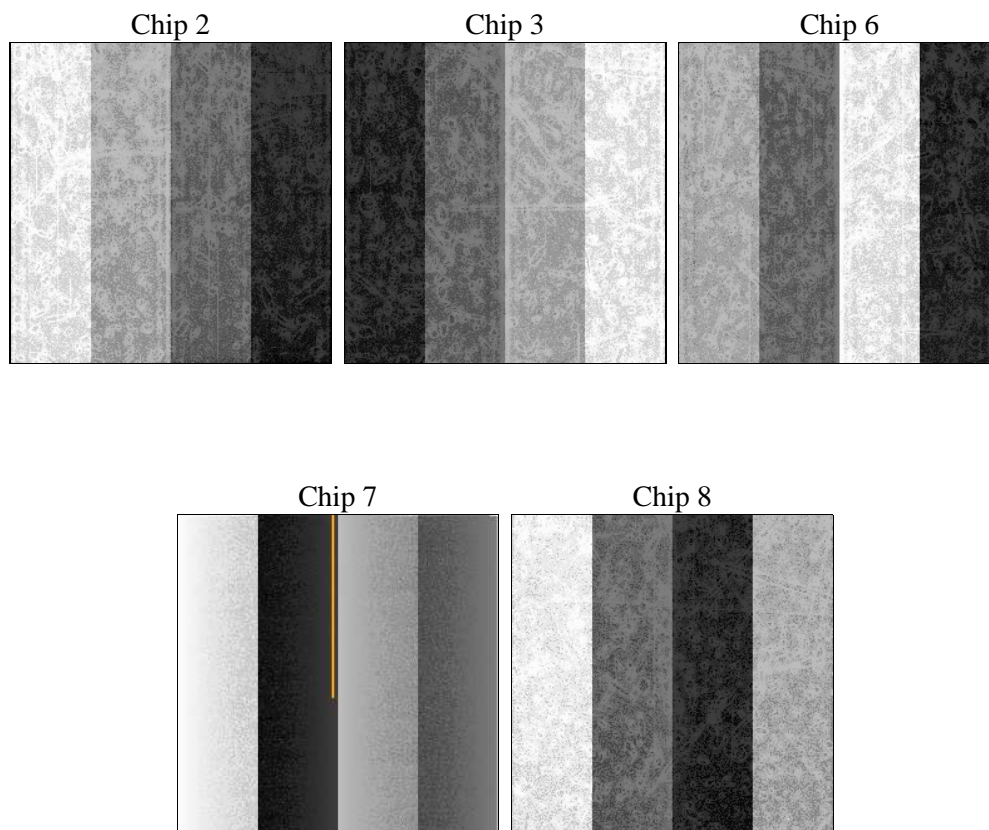
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20069.400154352	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	20066.259154022	Sum of GTIs [s]
date	2014-11-27T16:40:06	Date and time of file creation	ontime3	20069.400154352	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20069.400154352	Sum of GTIs [s]
			ontime7	20069.400154352	Sum of GTIs [s]
			ontime8	20066.259184003	Sum of GTIs [s]
			l1events	587466	Number of level 1 events

2.1.4 Events

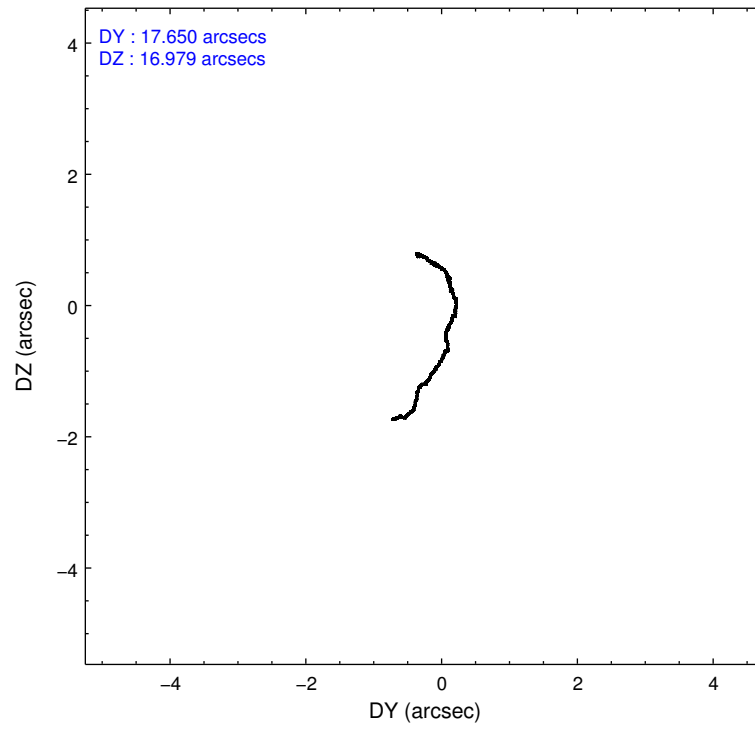
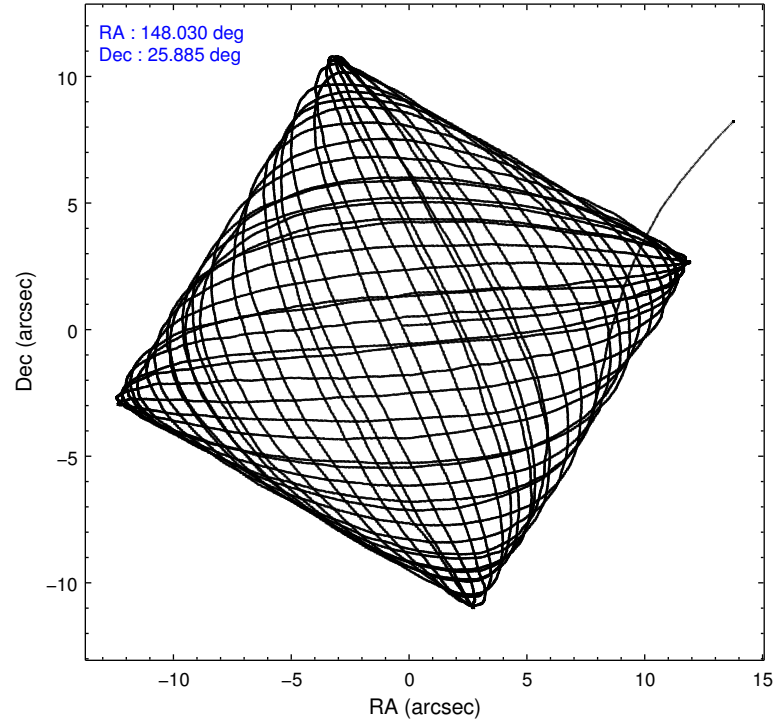
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	100352	98500	106406	139118	143090
rejected events	88626	86868	93520	78079	103145
rejected %	88%	88%	87%	56%	72%

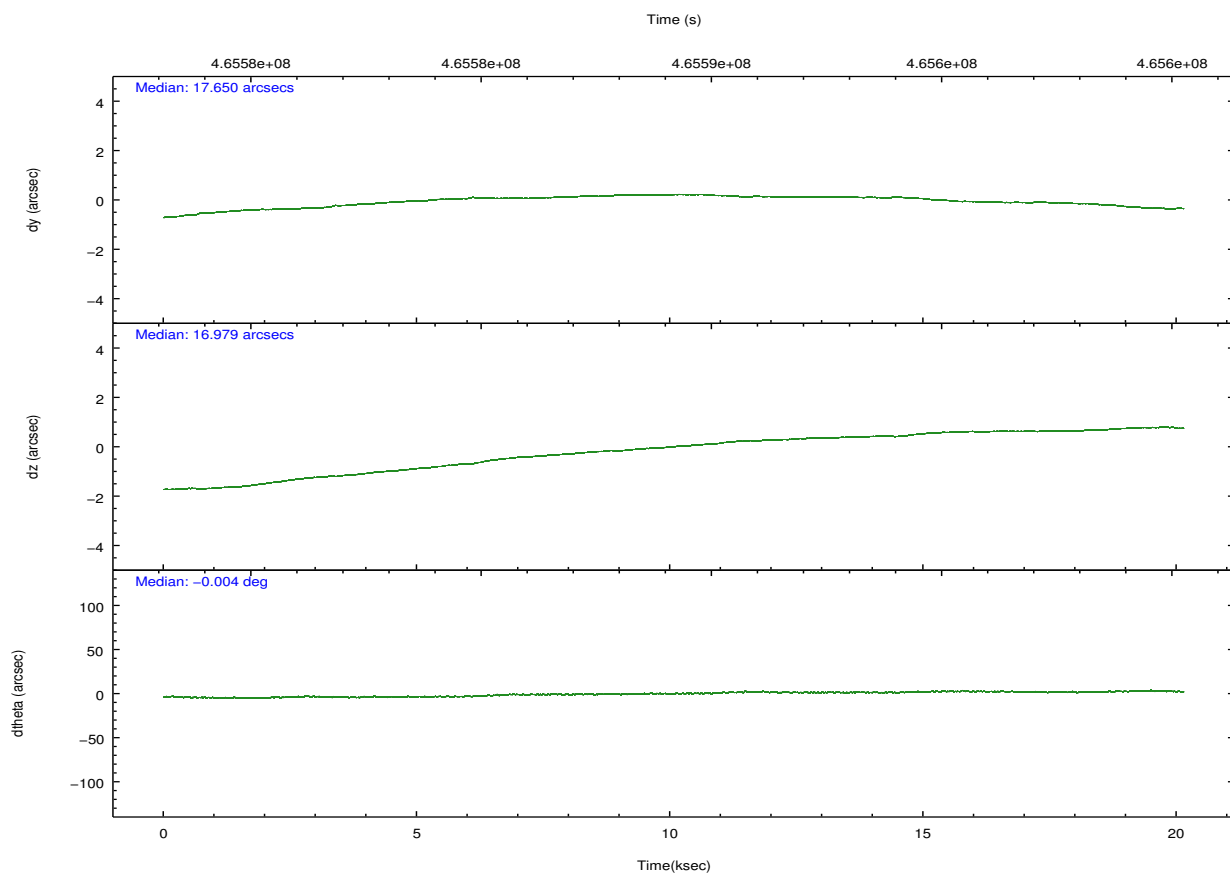
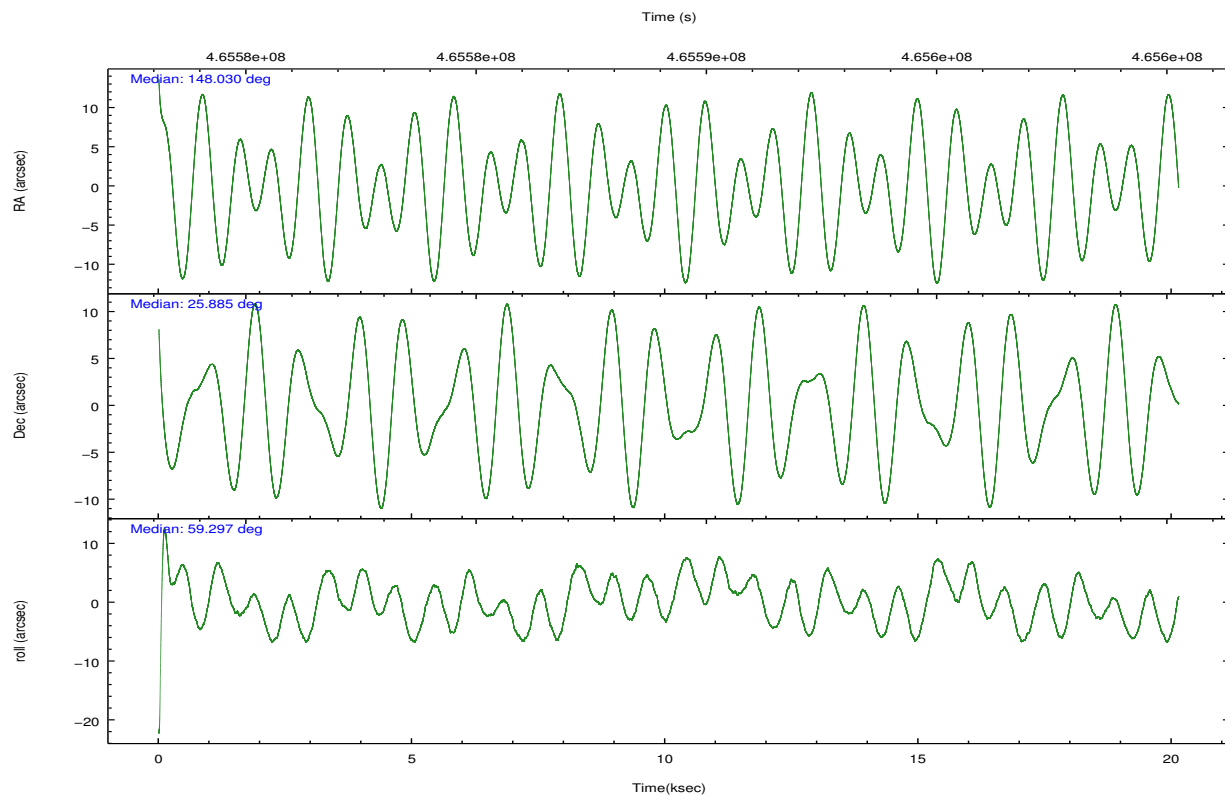
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4320	4167	4406	5479	12531
	4%	4%	4%	3%	8%
grade 1 events	51	55	52	161	116
	0%	0%	0%	0%	0%
grade 2 events	2765	2581	2943	12204	8729
	2%	2%	2%	8%	6%
grade 3 events	1198	1188	1301	5181	4422
	1%	1%	1%	3%	3%
grade 4 events	1198	1242	1298	5281	4170
	1%	1%	1%	3%	2%
grade 5 events	4436	5459	5377	14521	7749
	4%	5%	5%	10%	5%
grade 6 events	2247	2456	2940	32908	10097
	2%	2%	2%	23%	7%
grade 7 events	84137	81352	88089	63383	95276
	83%	82%	82%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	148.030194	148.0301820865235	CCD I2 on	O2	Y
[deg] Pointing Dec	25.857915	25.88525097709541	CCD I3 on	O1	Y
[deg] Pointing Roll	59.145232	59.30184030905058	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	465579254.184000	465578198.13398	CCD S5 on	N	N
Observation start date	2012-10-02T15:33:07	2012-10-02T15:16:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465599254.184000	465600164.39766	On-chip summing requested	N	N
Observation end date	2012-10-02T21:06:27	2012-10-02T21:22:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



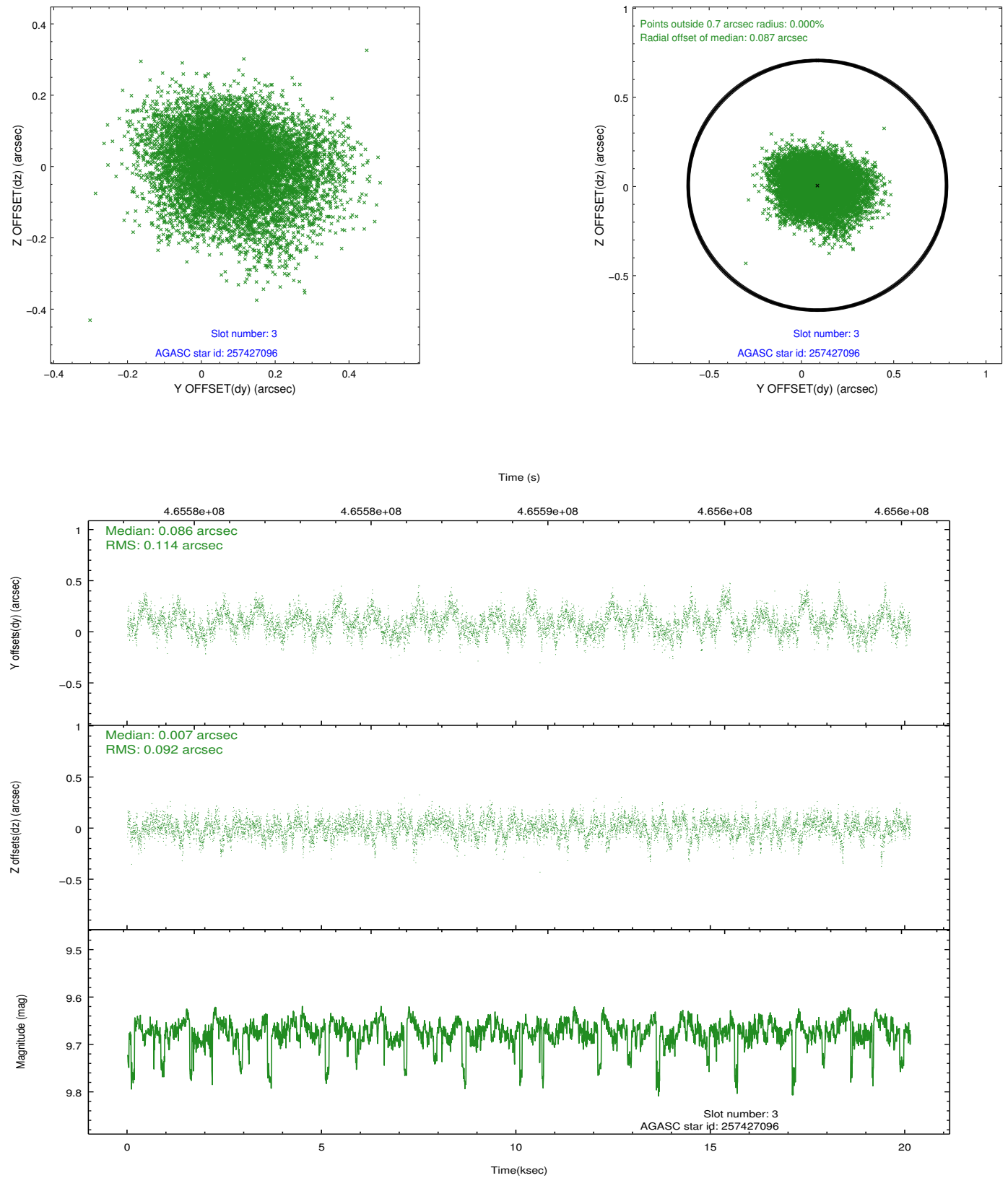


Slot Statistics

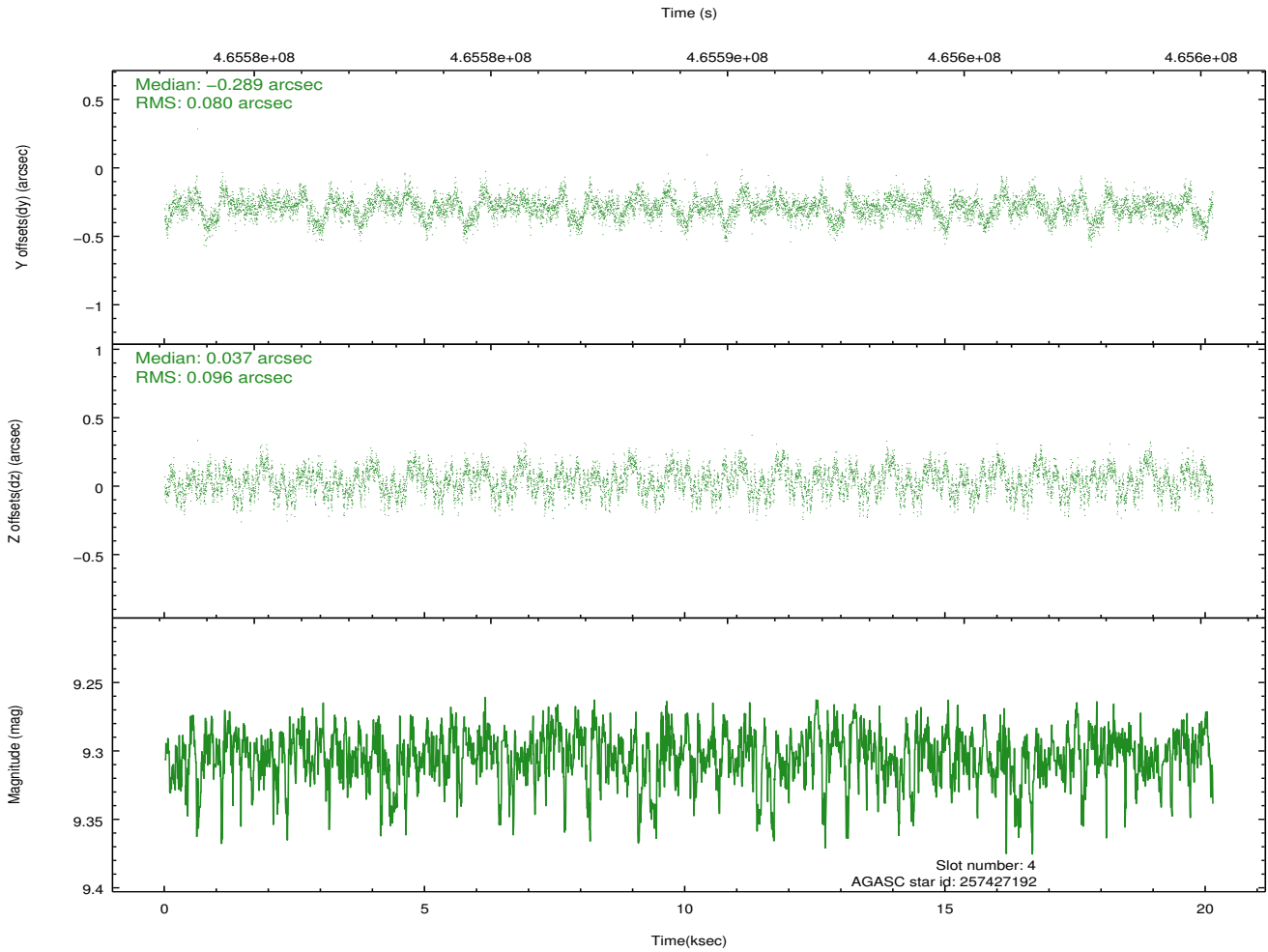
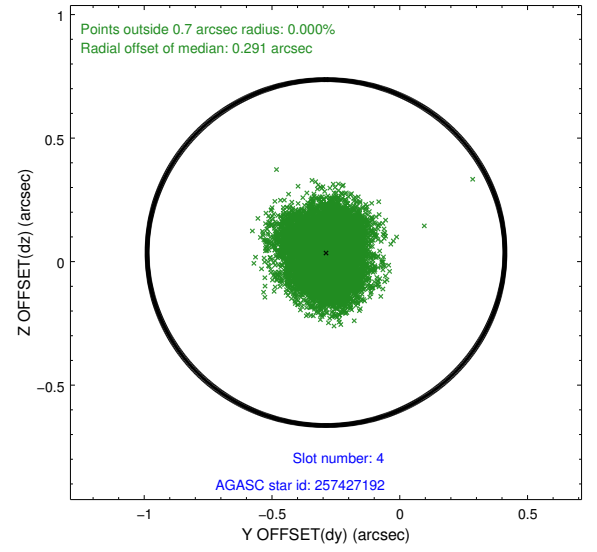
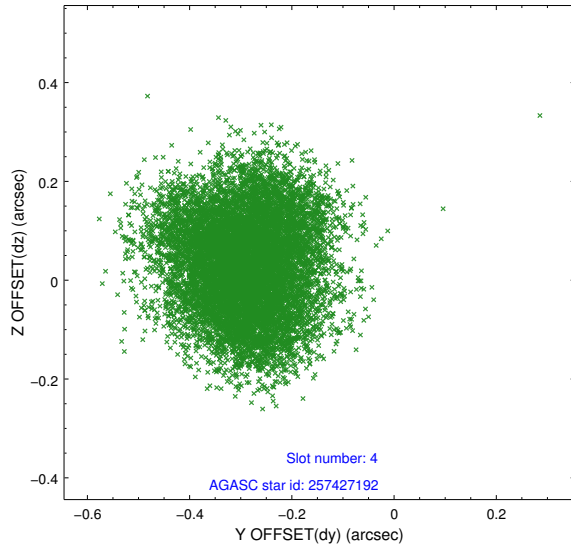
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	4911	-0.083	-0.029	0.023	0.042	0.000000	0.000000	-770.72	-1738.18
1	FID		ACIS-S-4	7.03	4910	0.227	0.048	0.010	0.018	0.000000	0.000000	2142.79	170.17
2	FID		ACIS-S-5	7.06	4912	-0.174	-0.010	0.022	0.045	0.000000	0.000000	-1823.40	164.01
3	GUIDE	used	257427096	9.67	9778	0.086	0.007	0.156	0.259	148.429099	26.092707	1388.98	-671.92
4	GUIDE	used	257427192	9.30	9811	-0.289	0.037	0.136	0.209	147.930776	26.313194	1242.48	1116.44
5	GUIDE	used	257428168	9.18	9760	-0.140	0.112	0.107	0.168	148.467746	26.292370	2069.13	-408.36
6	GUIDE	used	257435712	9.93	9767	0.015	-0.167	0.190	0.317	148.913948	26.094624	2205.34	-2010.40
7	GUIDE	used	257301432	8.53	9820	0.325	0.018	0.078	0.126	147.492554	25.408946	-2280.51	673.50

2.4 Star Slots

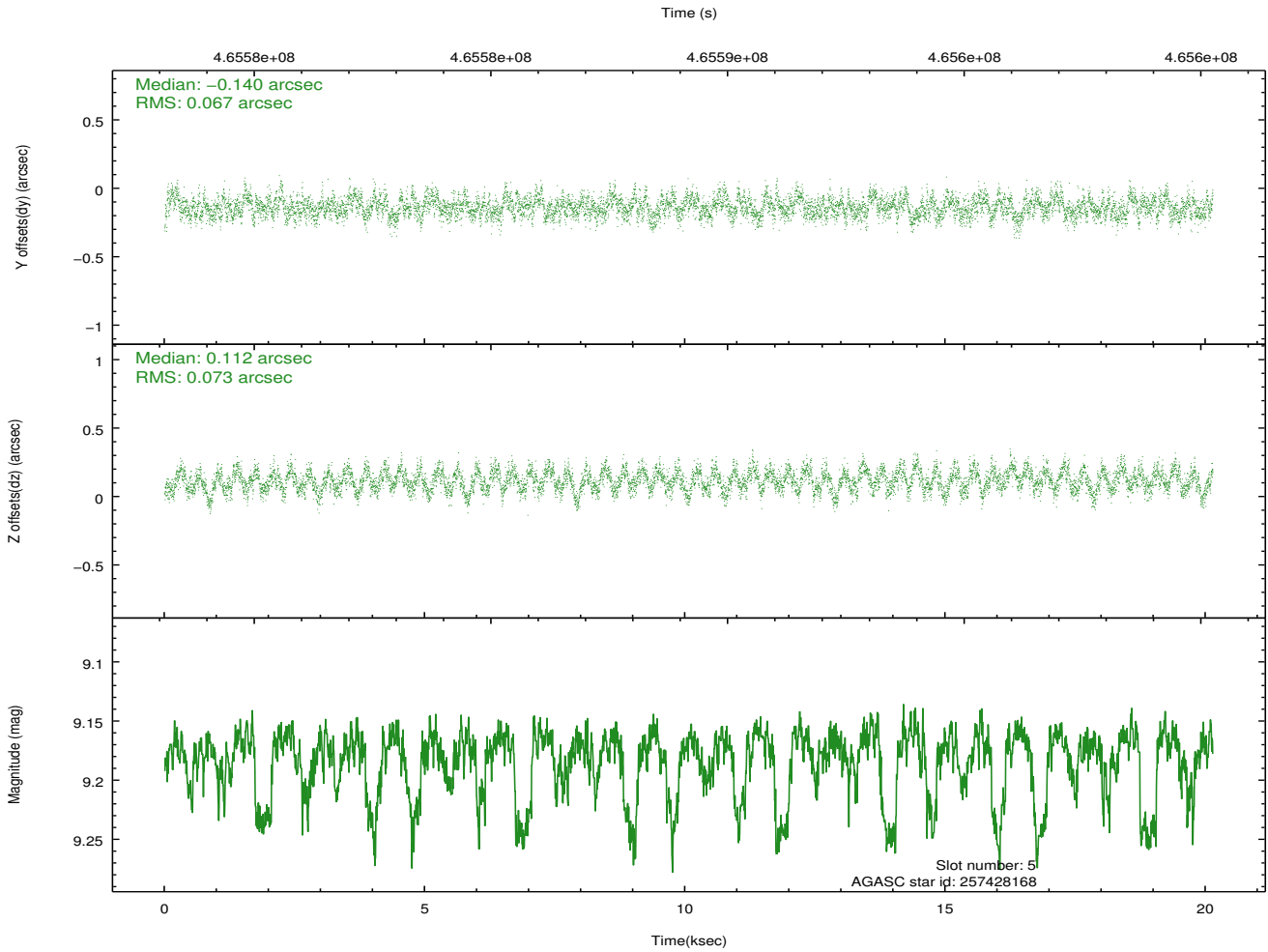
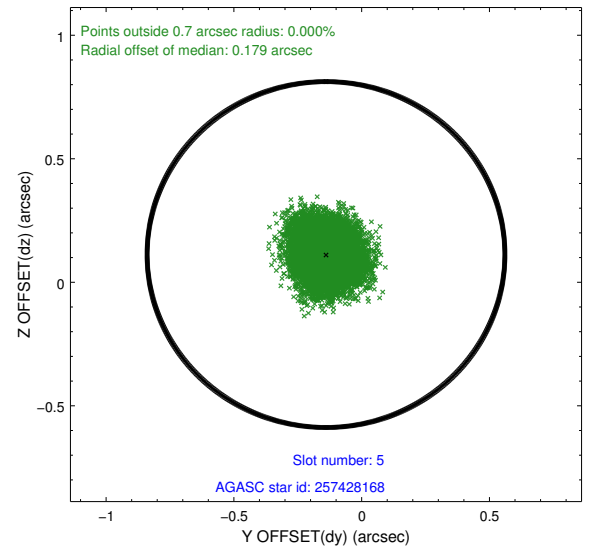
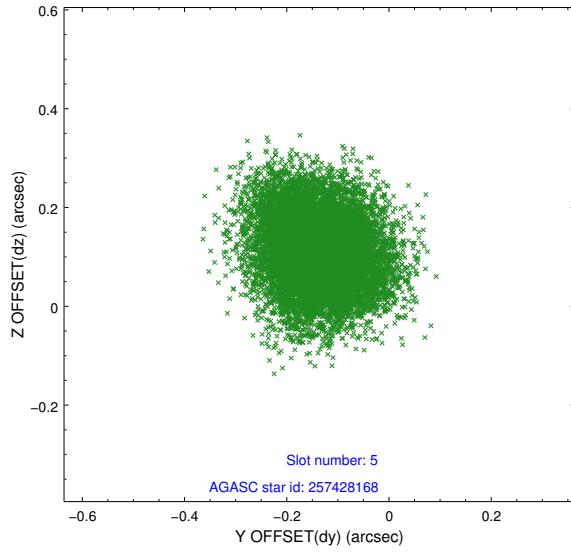
2.4.1 Slot 3



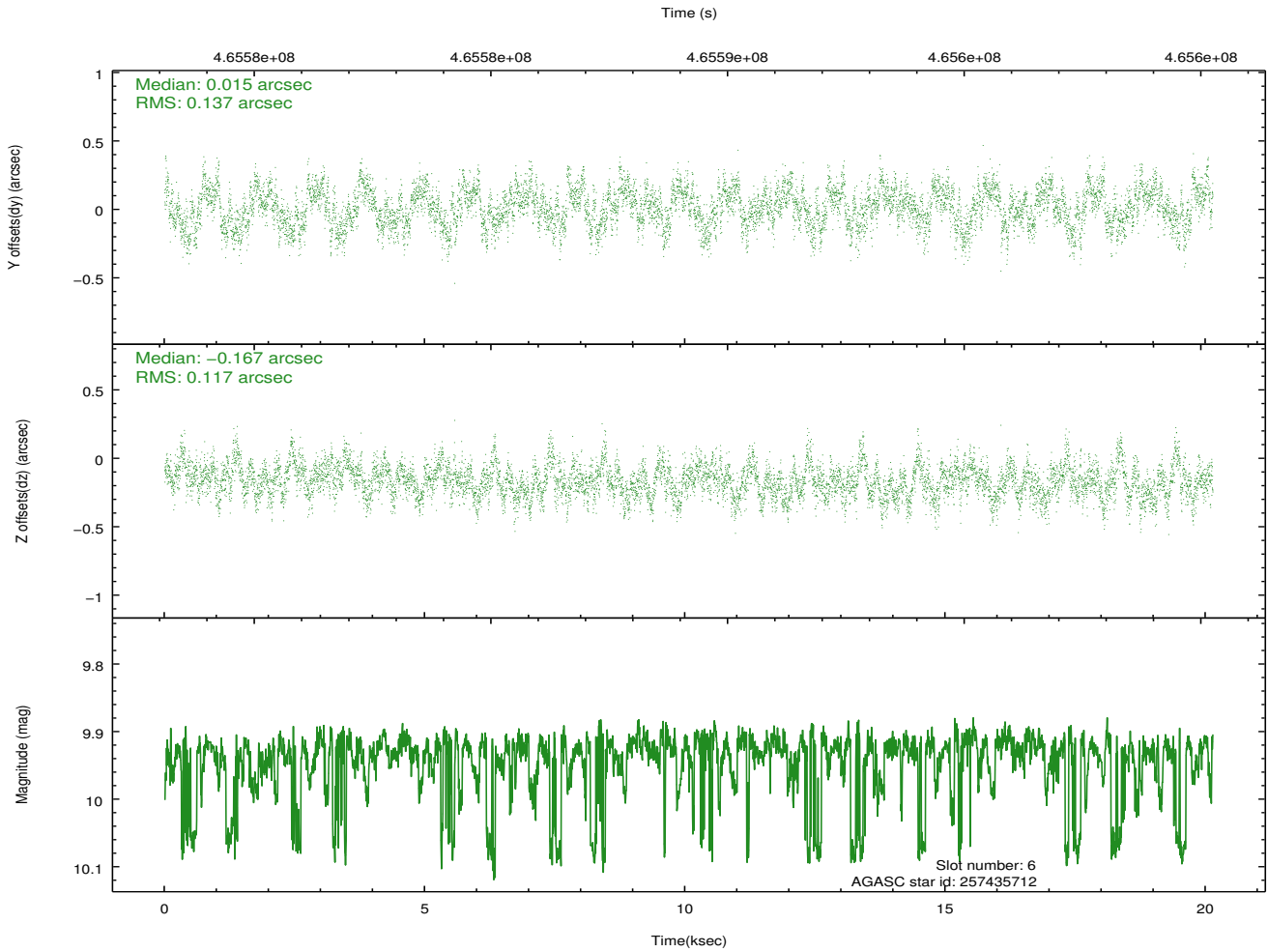
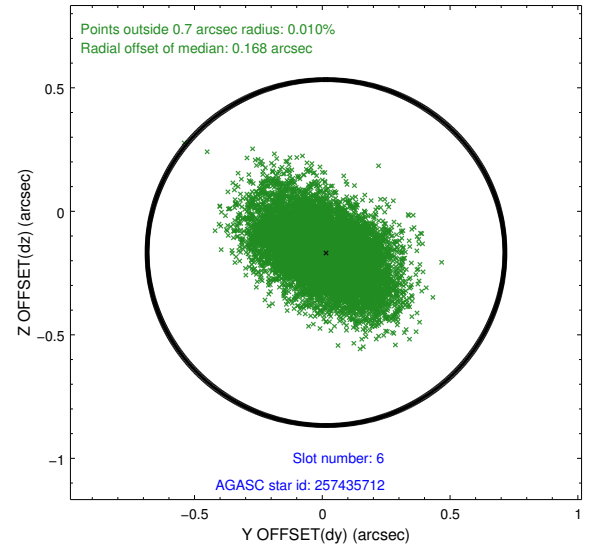
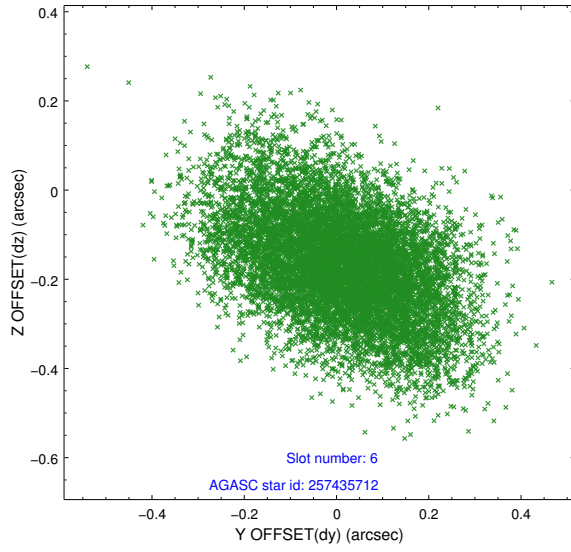
2.4.2 Slot 4



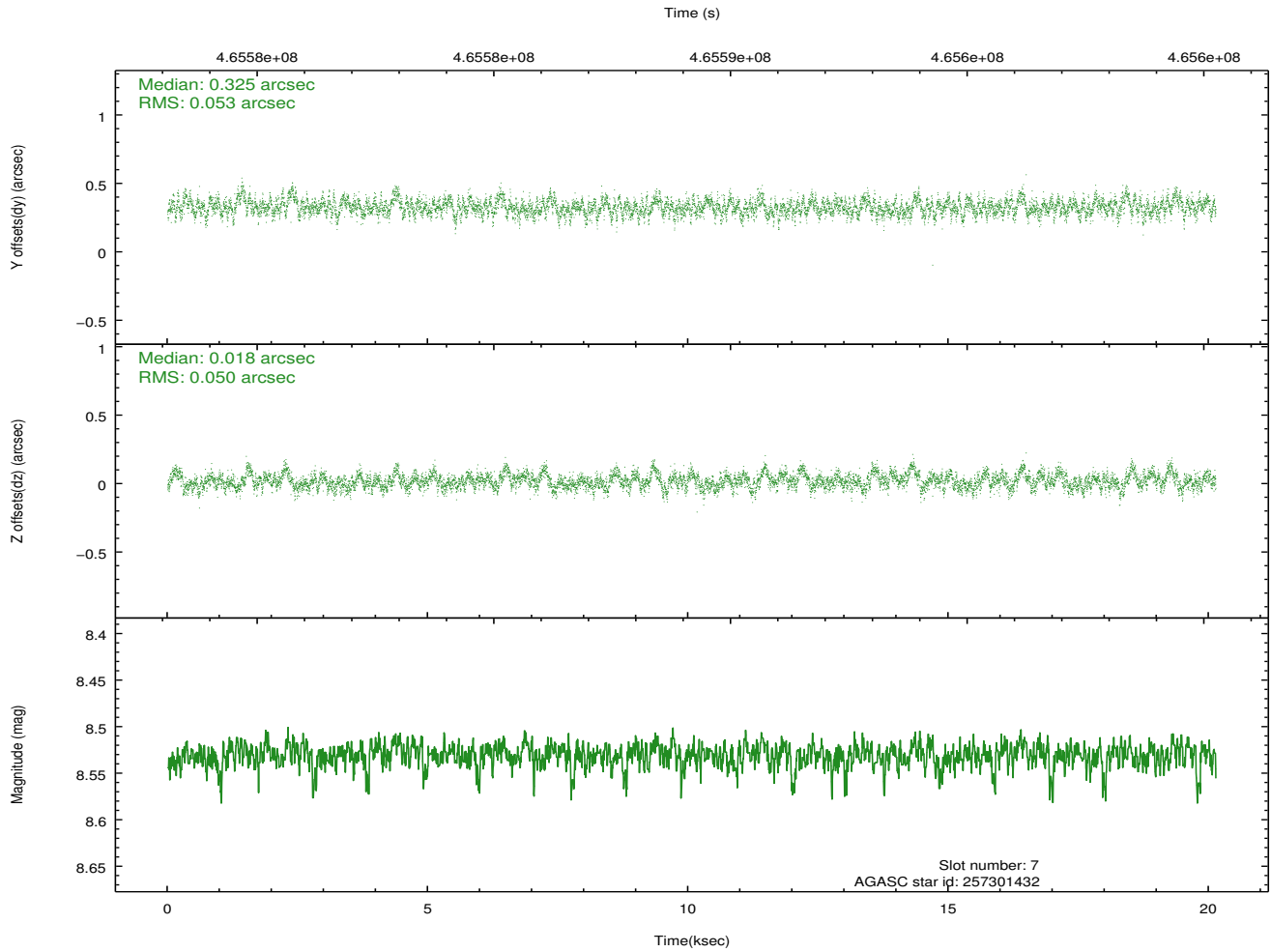
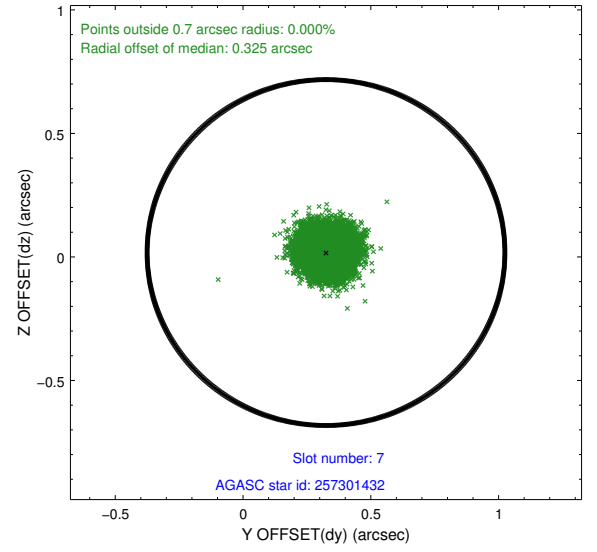
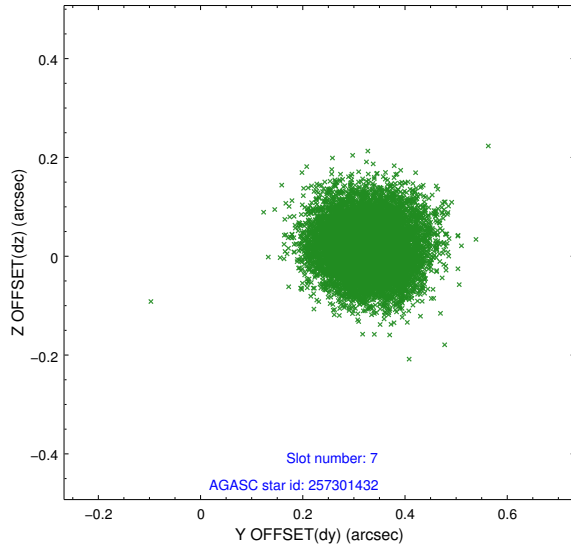
2.4.3 Slot 5



2.4.4 Slot 6

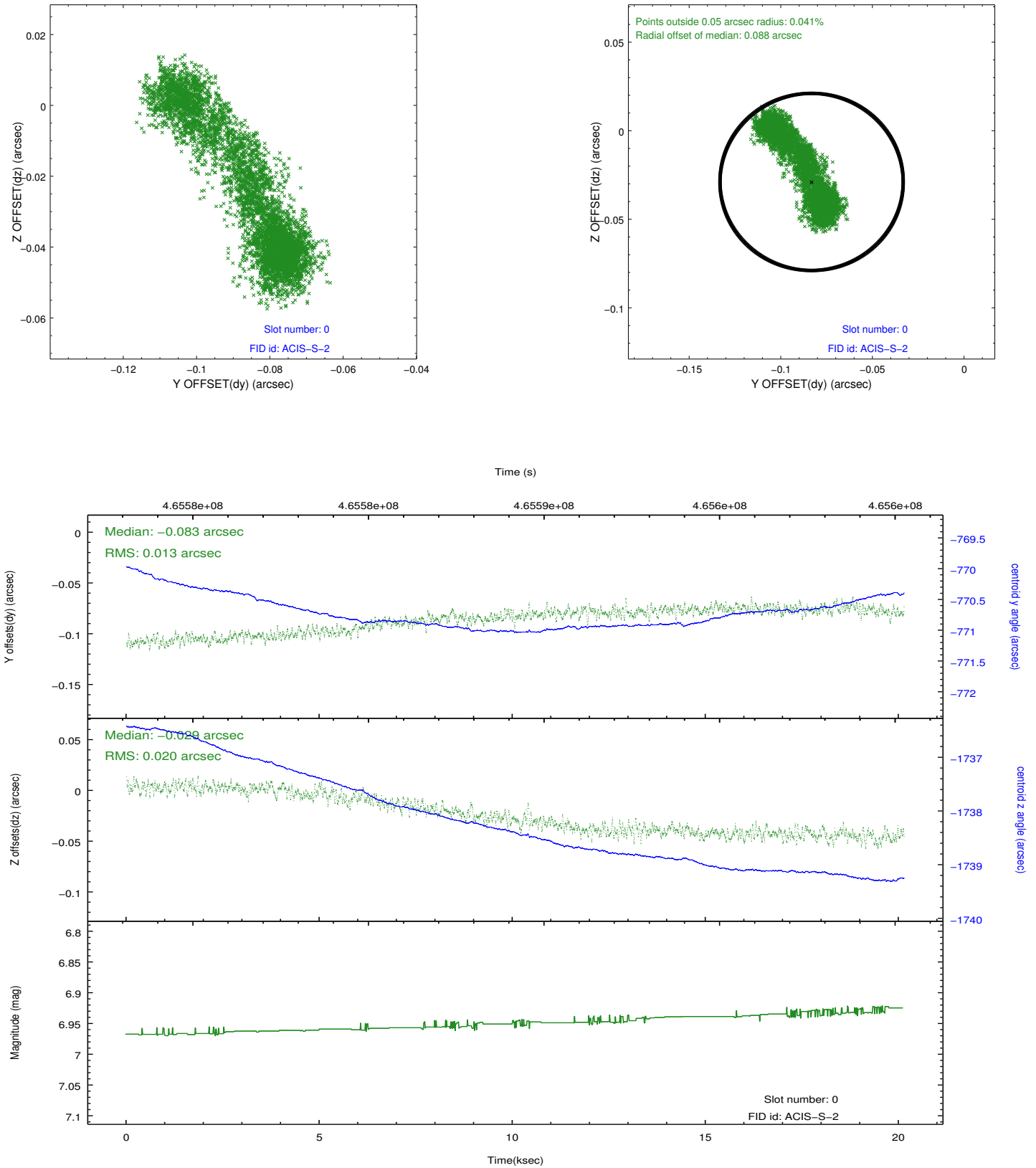


2.4.5 Slot 7

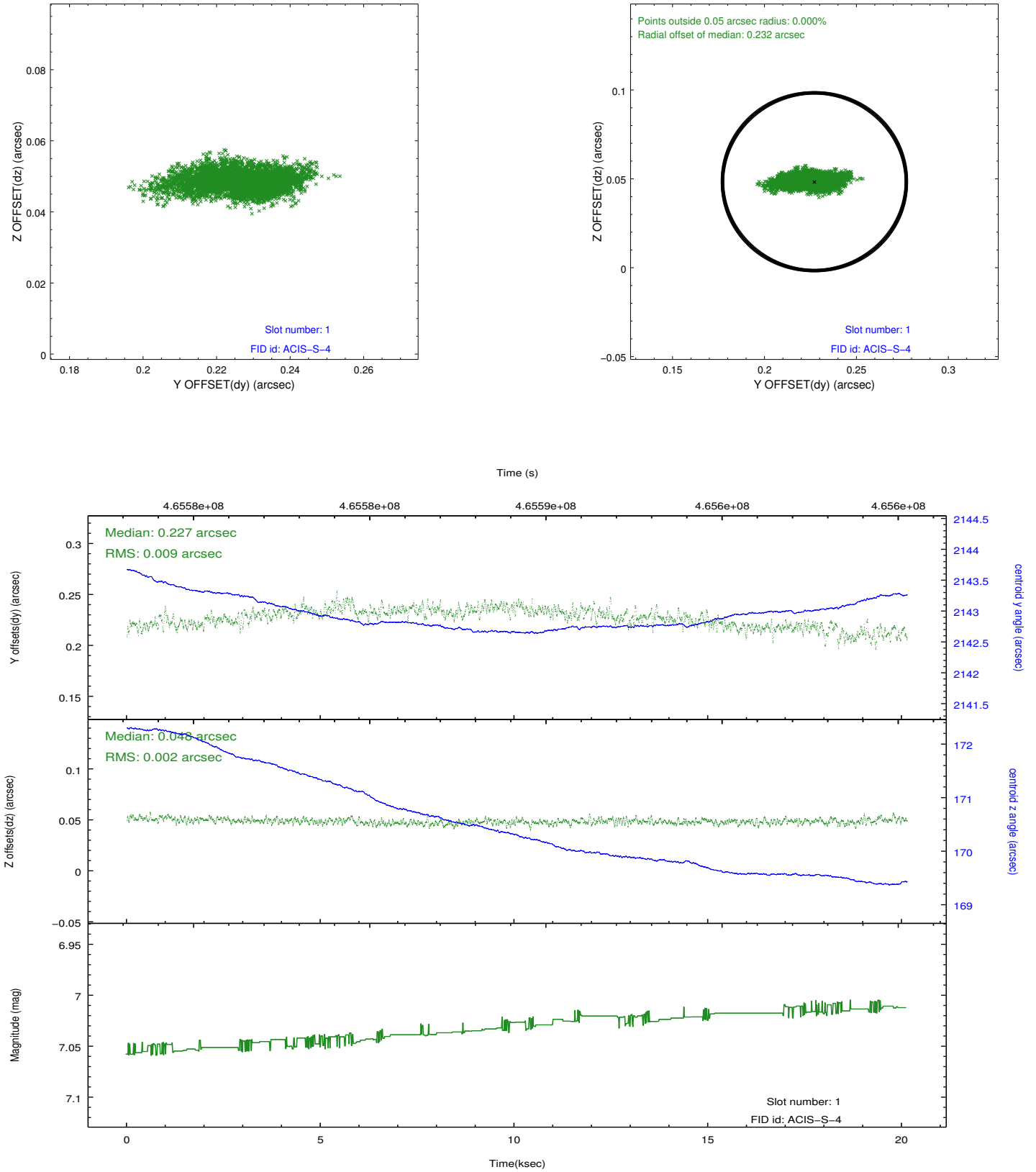


2.5 FID Slots

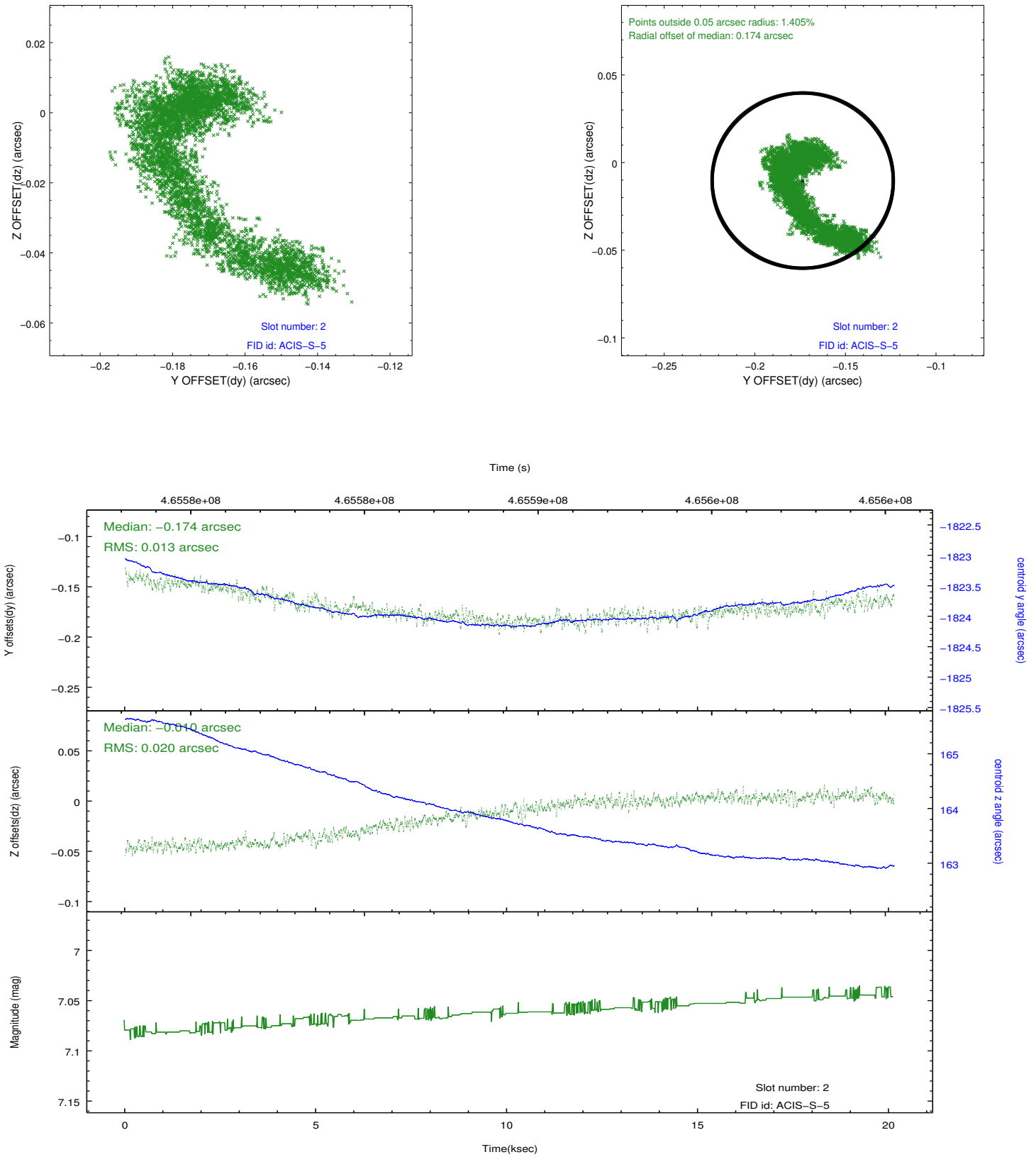
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069400154352

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.