

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14900 - L2 Version 2
Chandra X-Ray Center

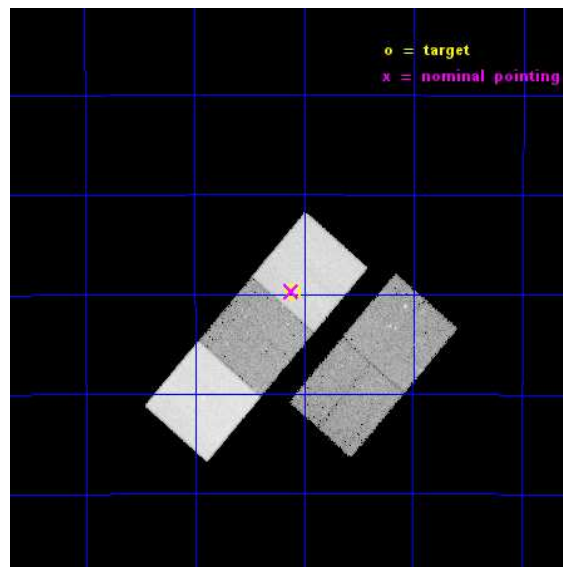
L2 Processing Date : Dec 2 2014

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1 Front

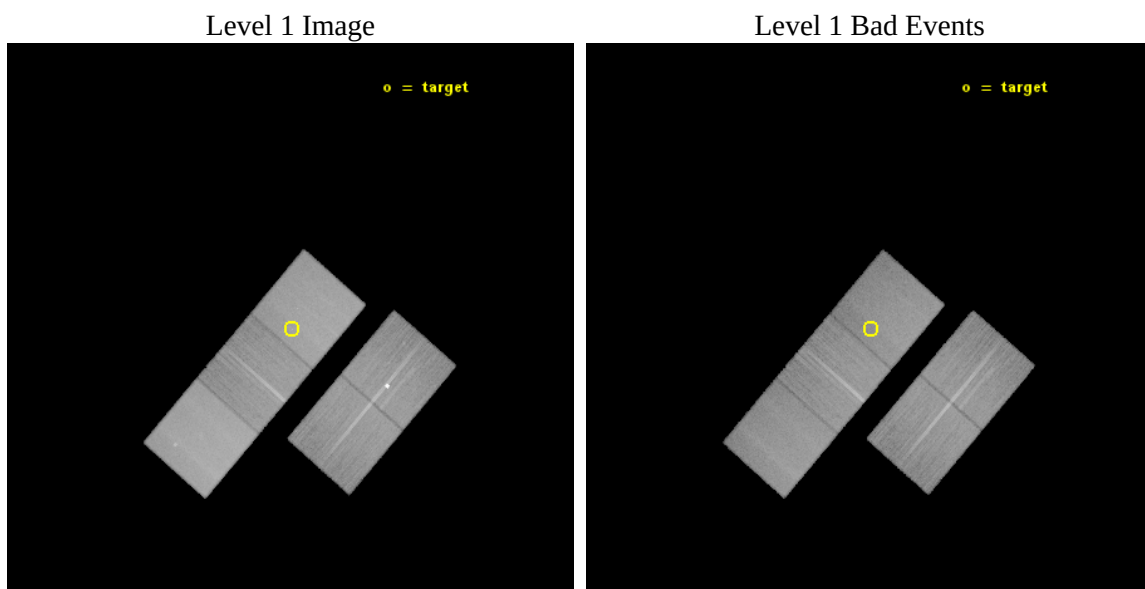
seq_num	601030	Sequence number
obs_id	14900	Observation id
title	The Baryon and Dark Matter Profiles of Isolated Elliptical Galaxies	
observer	Dr. David Buote	Principal investigator
object	ESO318-021	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	163.275	Observer's specified target RA [deg]
dec_targ	-40.329056	Observer's specified target Dec [deg]
ra_nom	163.27893326424	Nominal RA [deg]
dec_nom	-40.32861951996	Nominal Dec [deg]
roll_nom	310.79937619081	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50061.900385022	Sum of GTIs [s]
livetime	49407.804801457	Livetime [s]
ontime2	50058.759334743	Sum of GTIs [s]
ontime3	50058.759344757	Sum of GTIs [s]
ontime5	50061.900385022	Sum of GTIs [s]
ontime6	50055.618294656	Sum of GTIs [s]
ontime7	50061.900385022	Sum of GTIs [s]
l2events	434787	Number of level 2 events



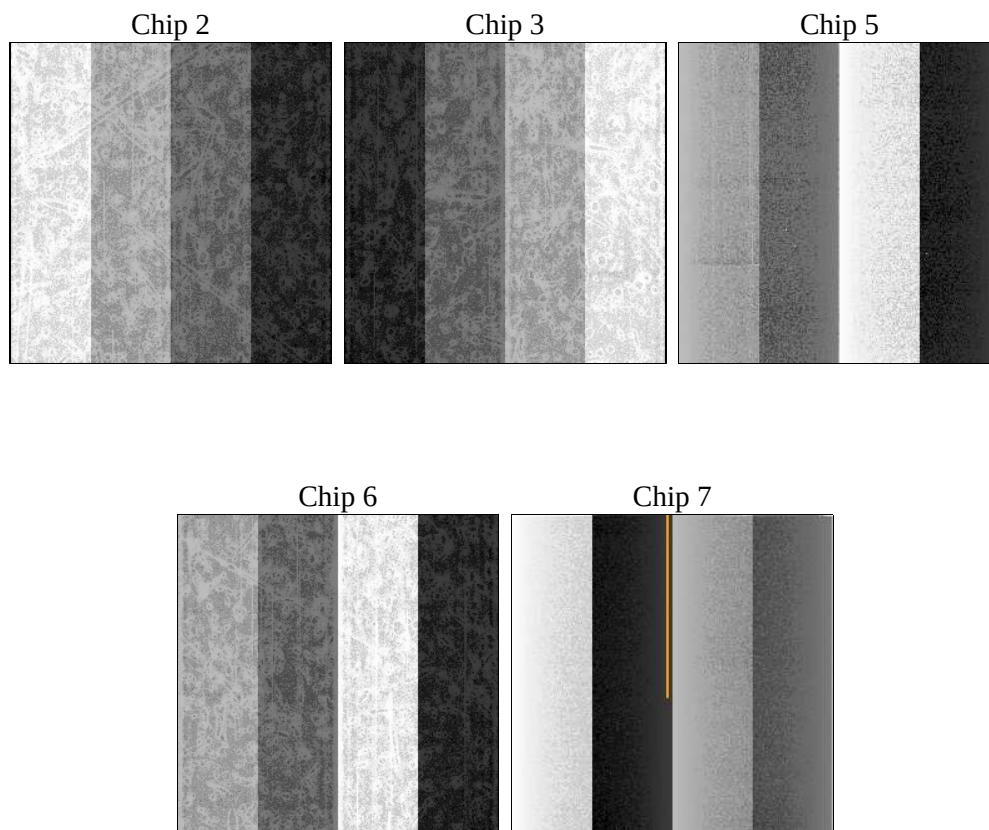
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	50061.900385022	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	50058.759334743	Sum of GTIs [s]
date	2014-12-02T16:33:50	Date and time of file creation	ontime3	50058.759344757	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	50061.900385022	Sum of GTIs [s]
			ontime6	50055.618294656	Sum of GTIs [s]
			ontime7	50061.900385022	Sum of GTIs [s]
			l1events	1618718	Number of level 1 events

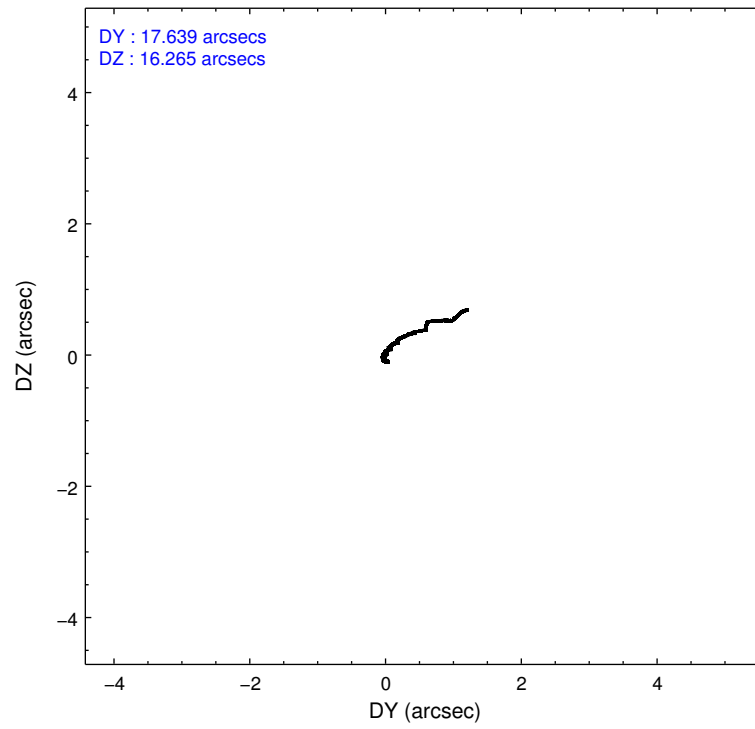
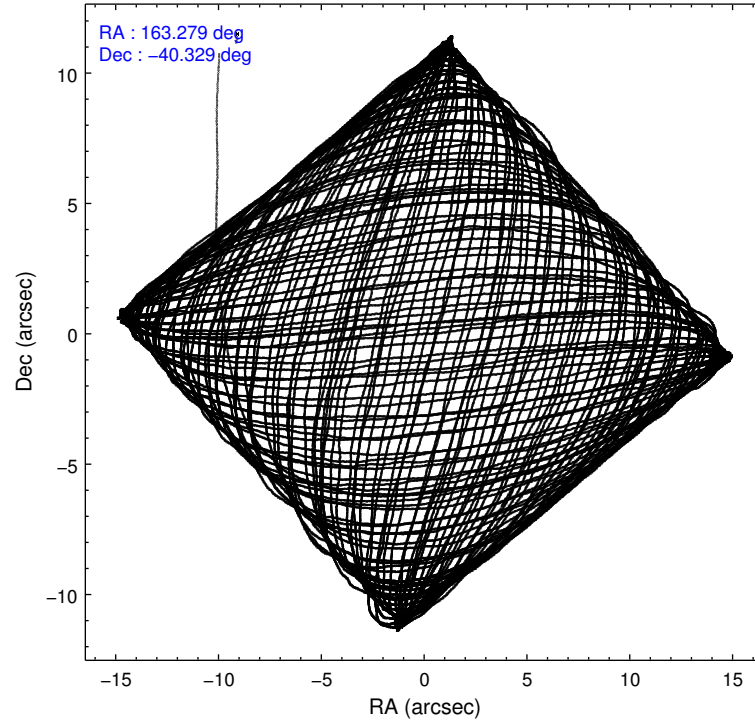
2.1.4 Events

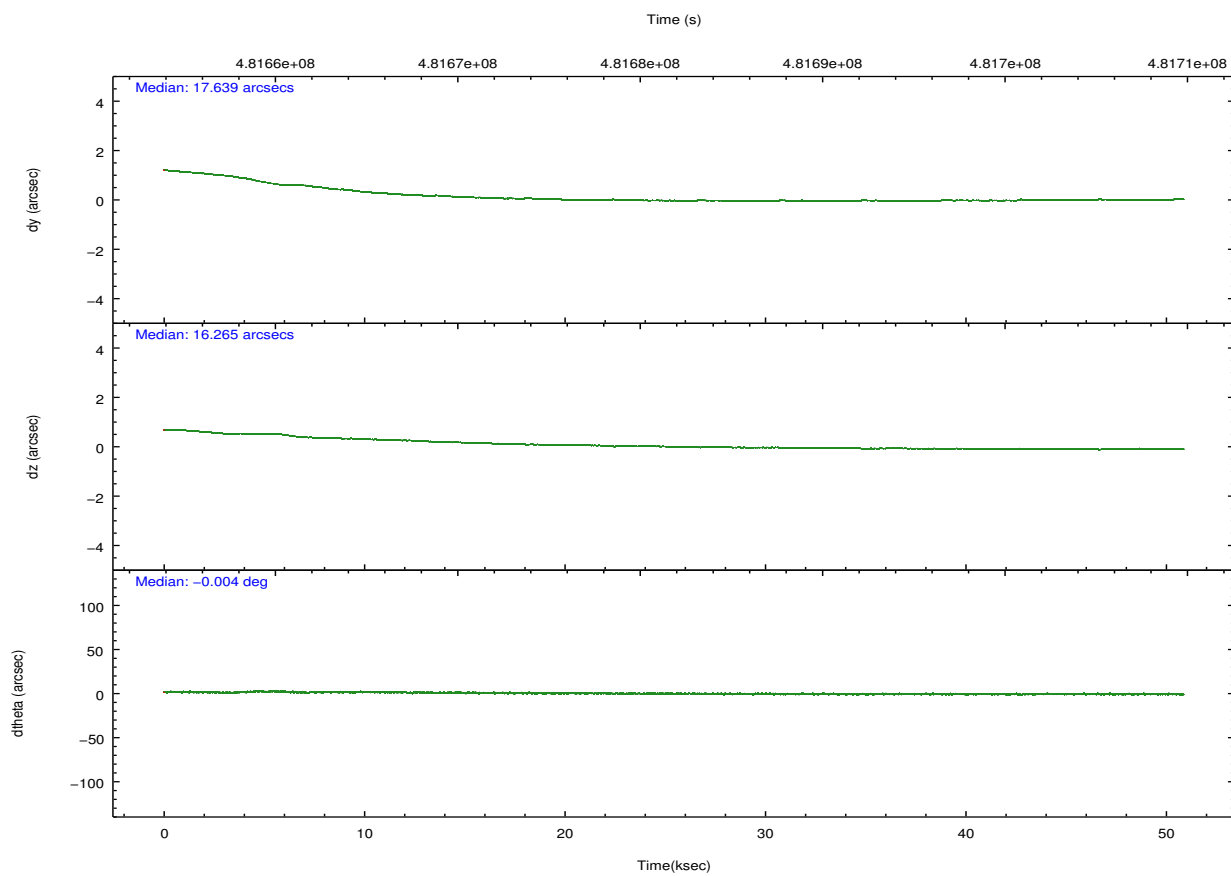
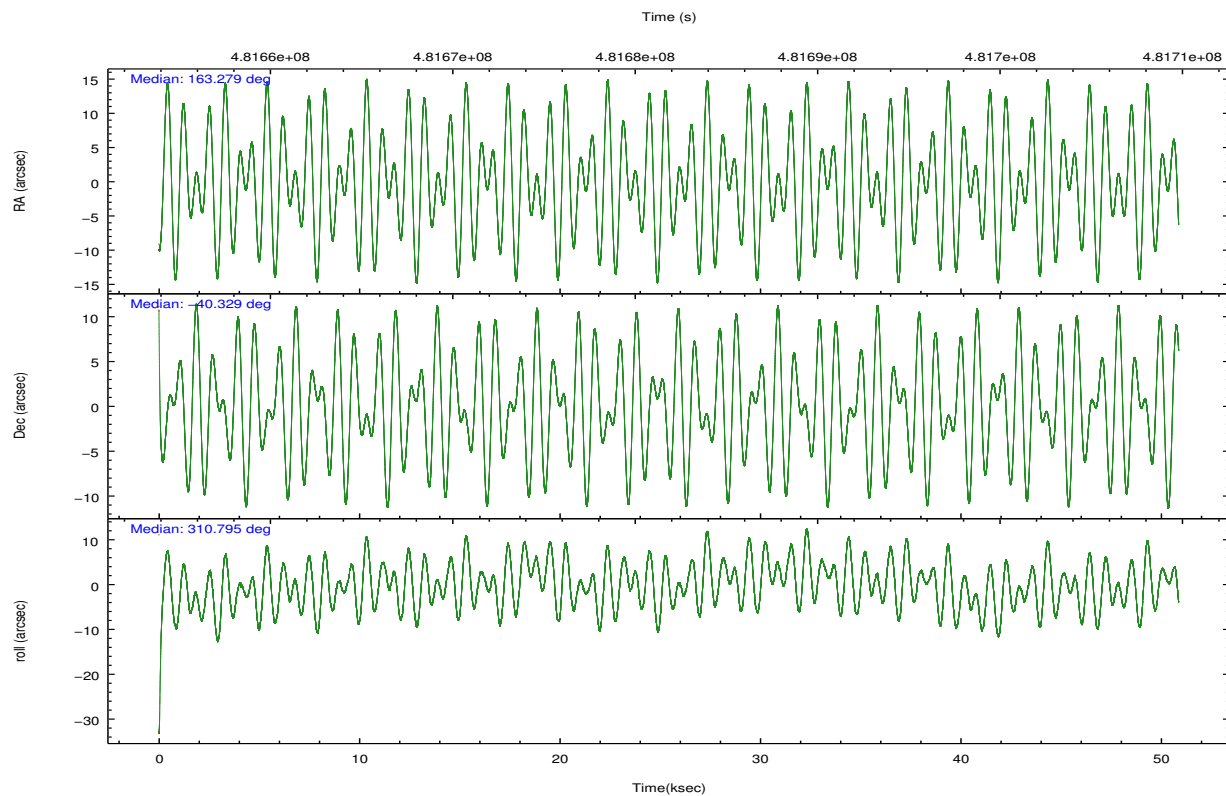
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	266410	275353	437266	272804	366885	grade 0 events	10362	25607	12011	11224	13930
rejected events	237002	230679	231652	240106	208791		3%	9%	2%	4%	3%
rejected %	88%	83%	52%	88%	56%	grade 1 events	133	198	752	125	412
							0%	0%	0%	0%	0%
						grade 2 events	7125	6595	63514	7342	32444
							2%	2%	14%	2%	8%
						grade 3 events	2980	3233	7032	3335	13118
							1%	1%	1%	1%	3%
						grade 4 events	3039	3311	6509	3168	12924
							1%	1%	1%	1%	3%
						grade 5 events	11210	13988	31436	13993	36944
							4%	5%	7%	5%	10%
						grade 6 events	5905	5933	116581	7633	85702
							2%	2%	26%	2%	23%
						grade 7 events	225656	216488	199431	225984	171411
							84%	78%	45%	82%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	163.244901	163.2789332642442	CCD I2 on	O2	Y
[deg] Pointing Dec	-40.319973	-40.32861951995987	CCD I3 on	Y	Y
[deg] Pointing Roll	310.620731	310.7993761908098	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	N
[s] Observation start time (MET)	481657275.184000	481655670.45055	CCD S5 on	N	N
Observation start date	2013-04-06T17:40:08	2013-04-06T17:14:30	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	481707275.184000	481708052.05339	On-chip summing requested	N	N
Observation end date	2013-04-07T07:33:28	2013-04-07T07:47:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



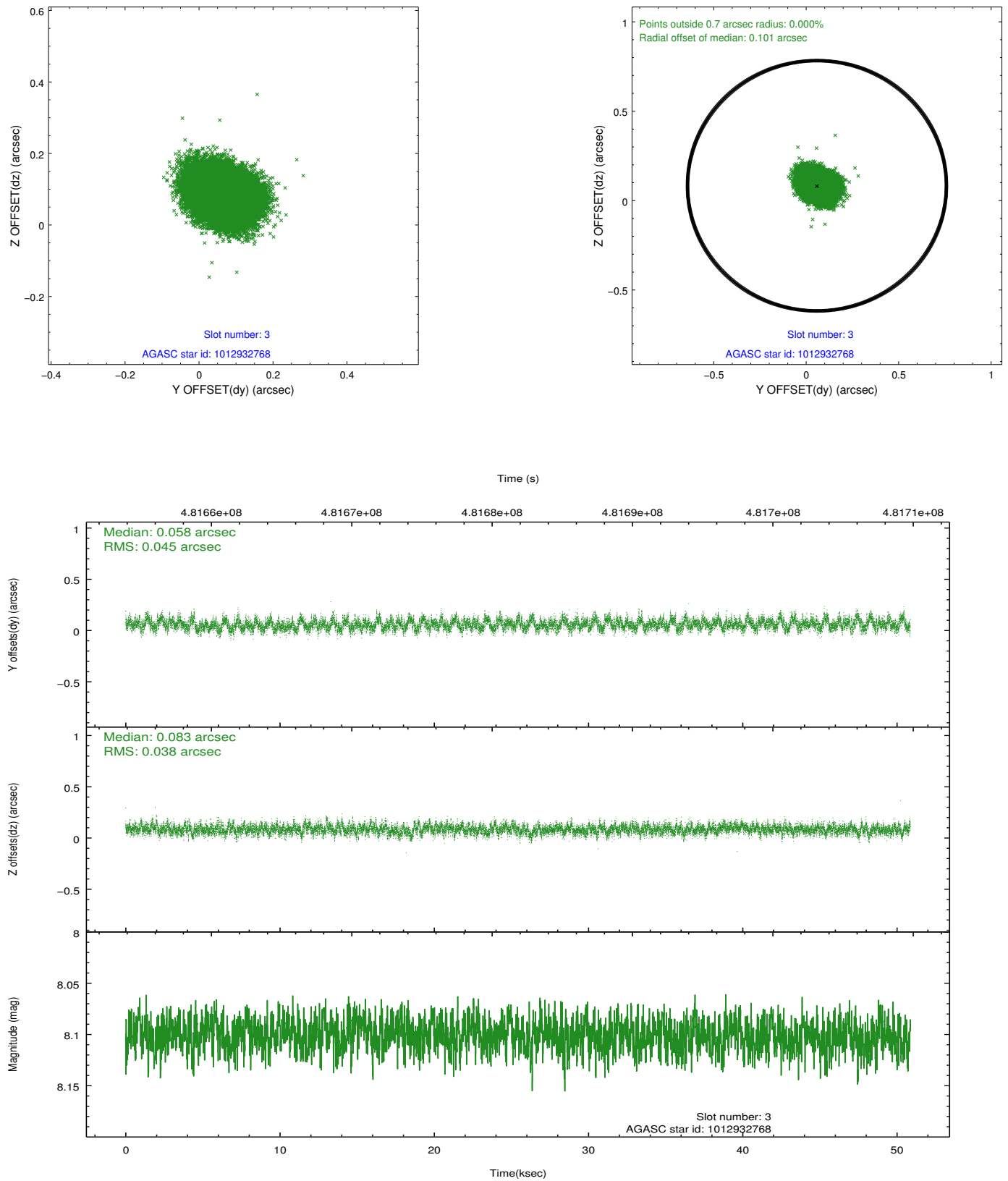


Slot Statistics

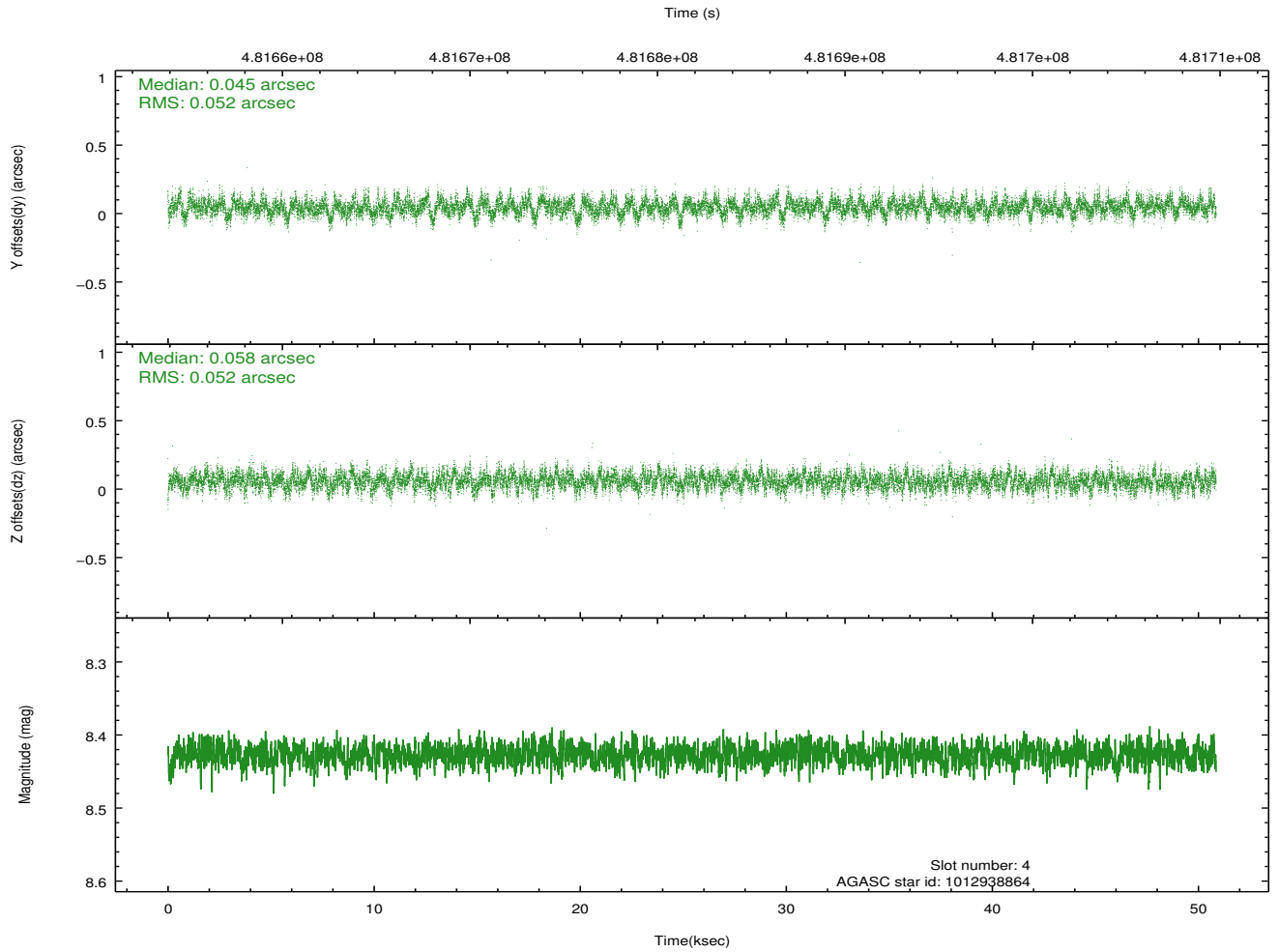
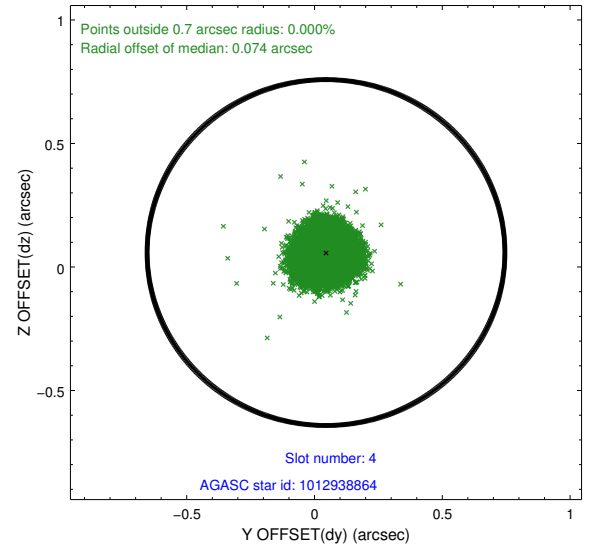
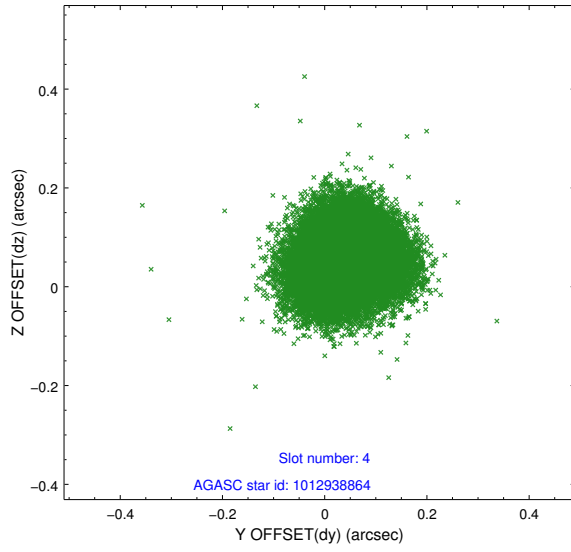
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	12409	-0.106	-0.024	0.010	0.022	0.000000	0.000000	-770.96	-1737.81
1	FID		ACIS-S-4	7.11	12409	0.259	0.058	0.009	0.030	0.000000	0.000000	2142.70	170.78
2	FID		ACIS-S-5	7.14	12407	-0.185	-0.025	0.012	0.028	0.000000	0.000000	-1823.91	164.34
3	GUIDE	used	1012932768	8.10	24814	0.058	0.083	0.063	0.103	163.114277	-39.871789	-1459.22	776.30
4	GUIDE	used	1012938864	8.43	24807	0.045	0.058	0.078	0.125	163.271821	-40.417298	314.23	-172.00
5	GUIDE	used	1012939664	8.50	24745	-0.015	0.038	0.071	0.117	164.185228	-40.573296	2376.04	1347.03
6	GUIDE	used	1012941672	9.38	24710	0.052	-0.033	0.100	0.163	163.199515	-40.640763	796.34	-845.92
7	GUIDE	used	1012944344	9.39	24633	-0.142	-0.147	0.102	0.162	164.195879	-40.338547	1760.31	1928.02

2.4 Star Slots

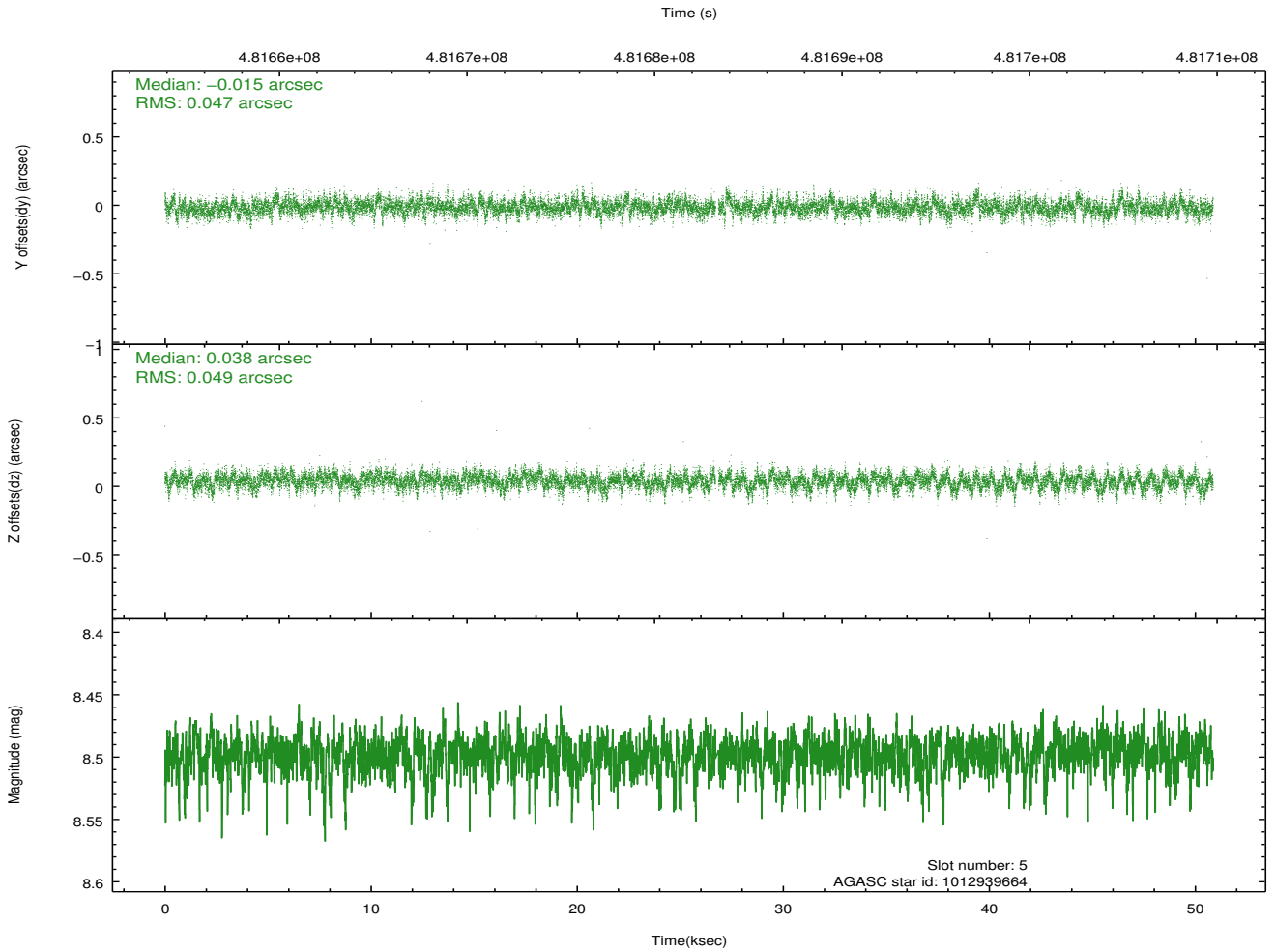
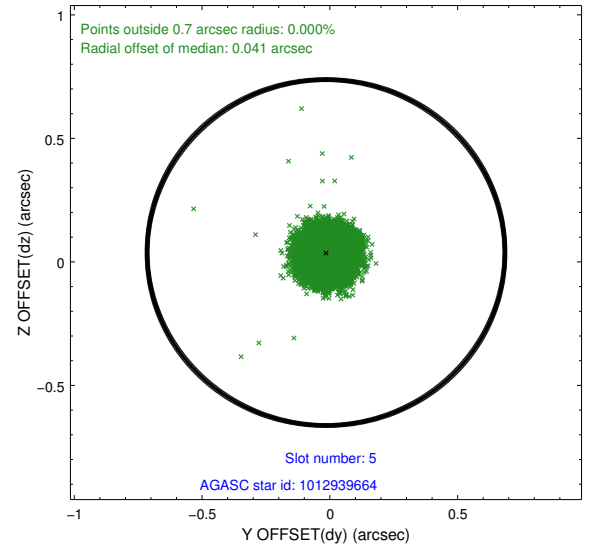
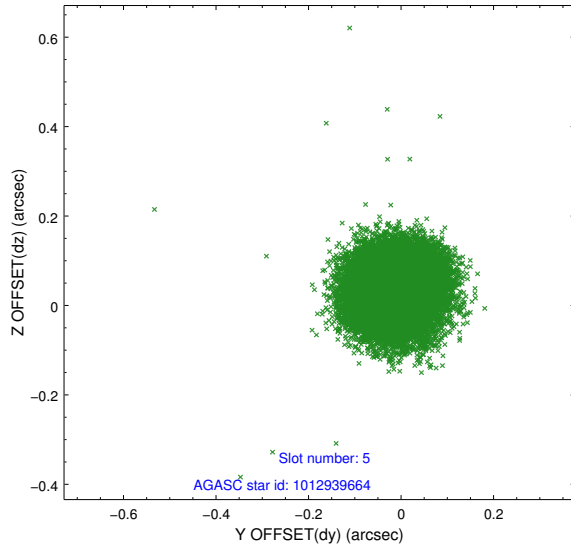
2.4.1 Slot 3



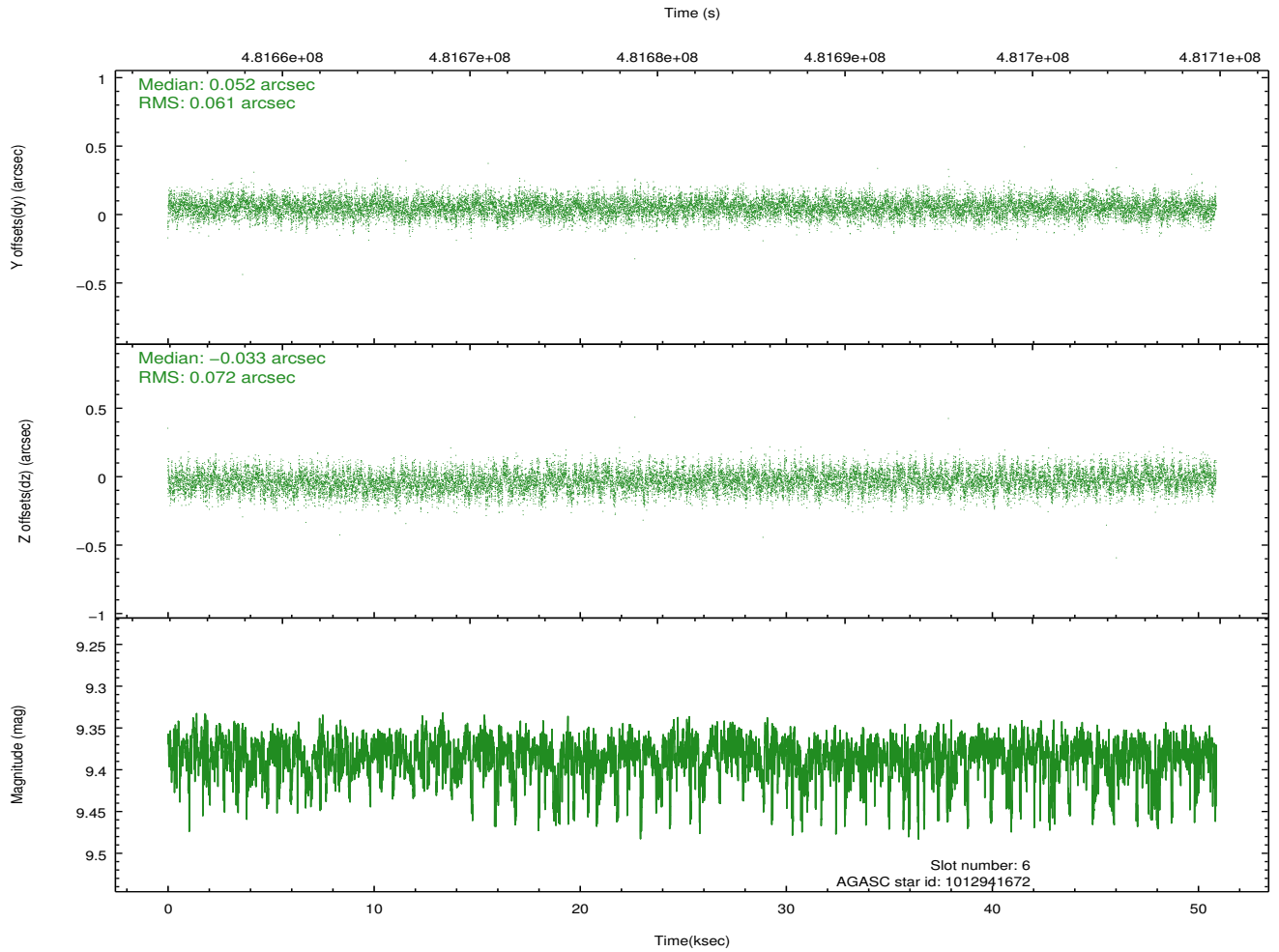
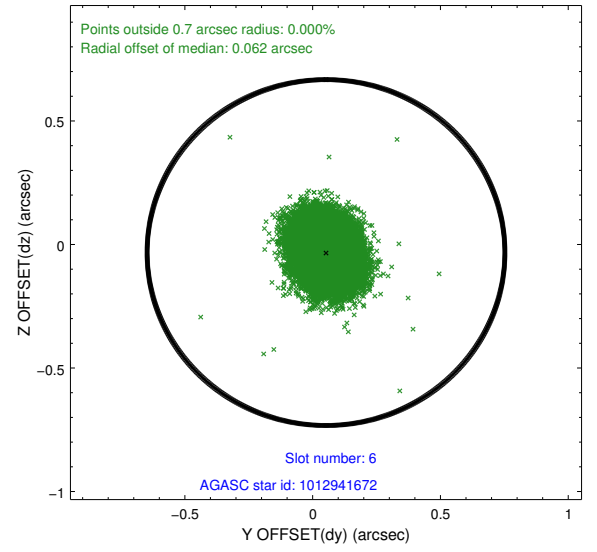
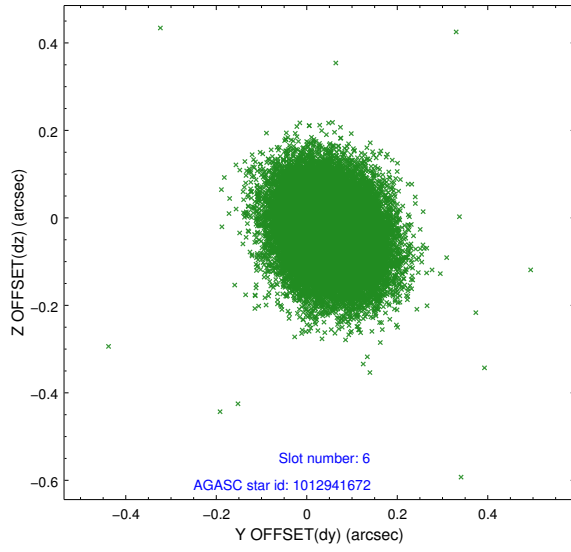
2.4.2 Slot 4



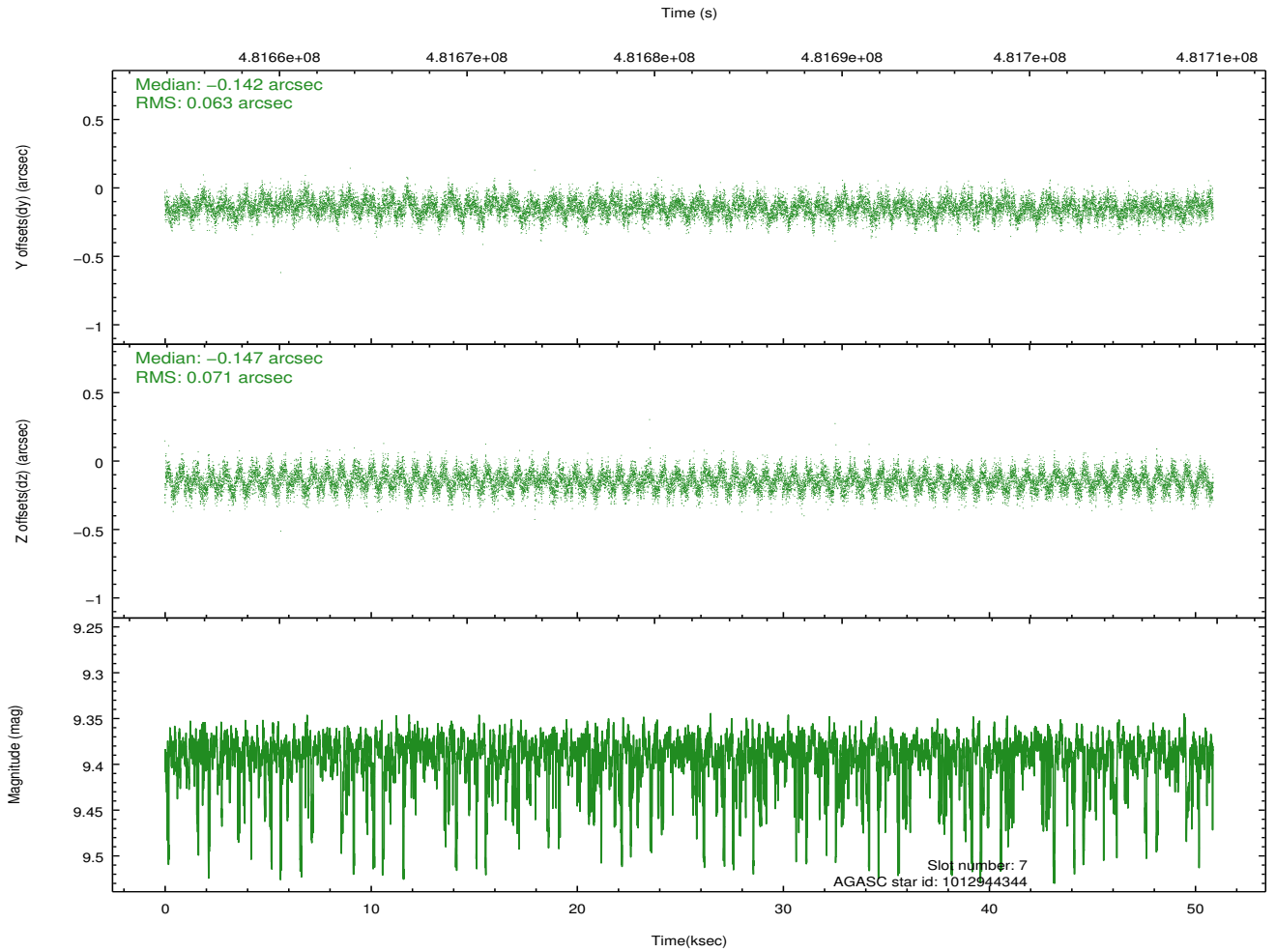
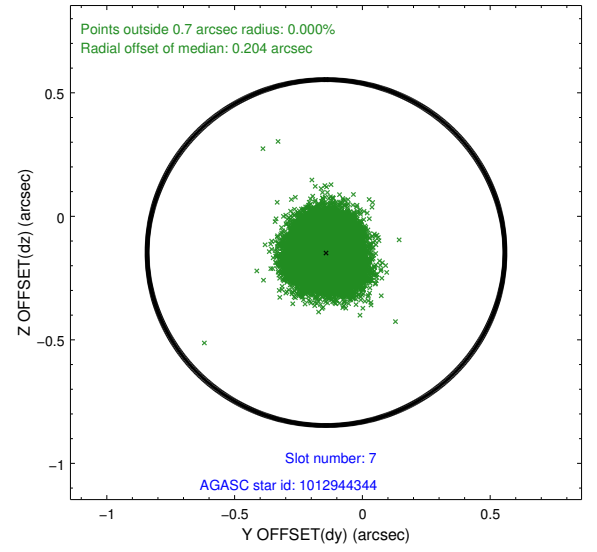
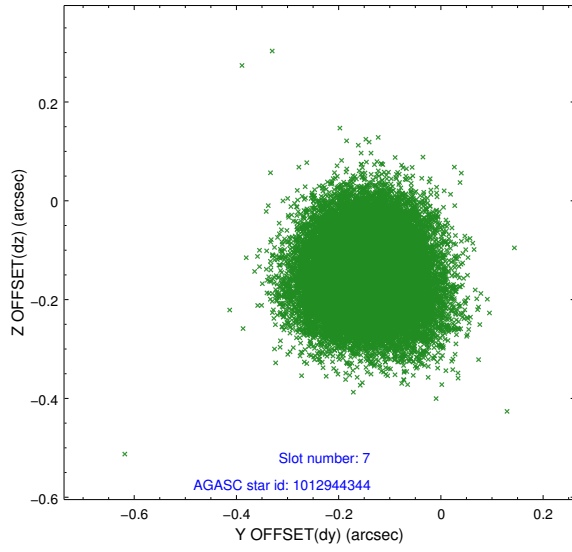
2.4.3 Slot 5



2.4.4 Slot 6

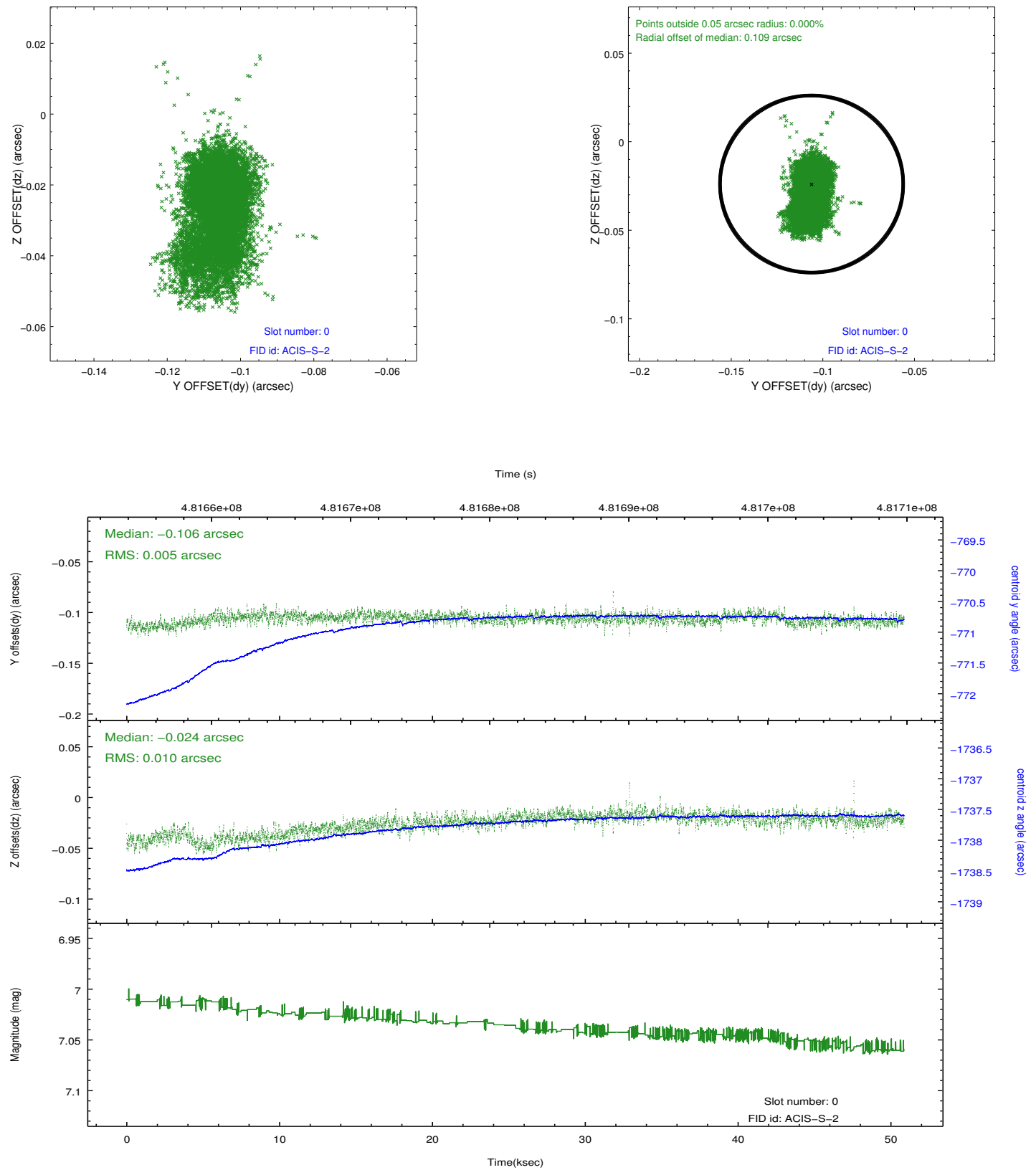


2.4.5 Slot 7

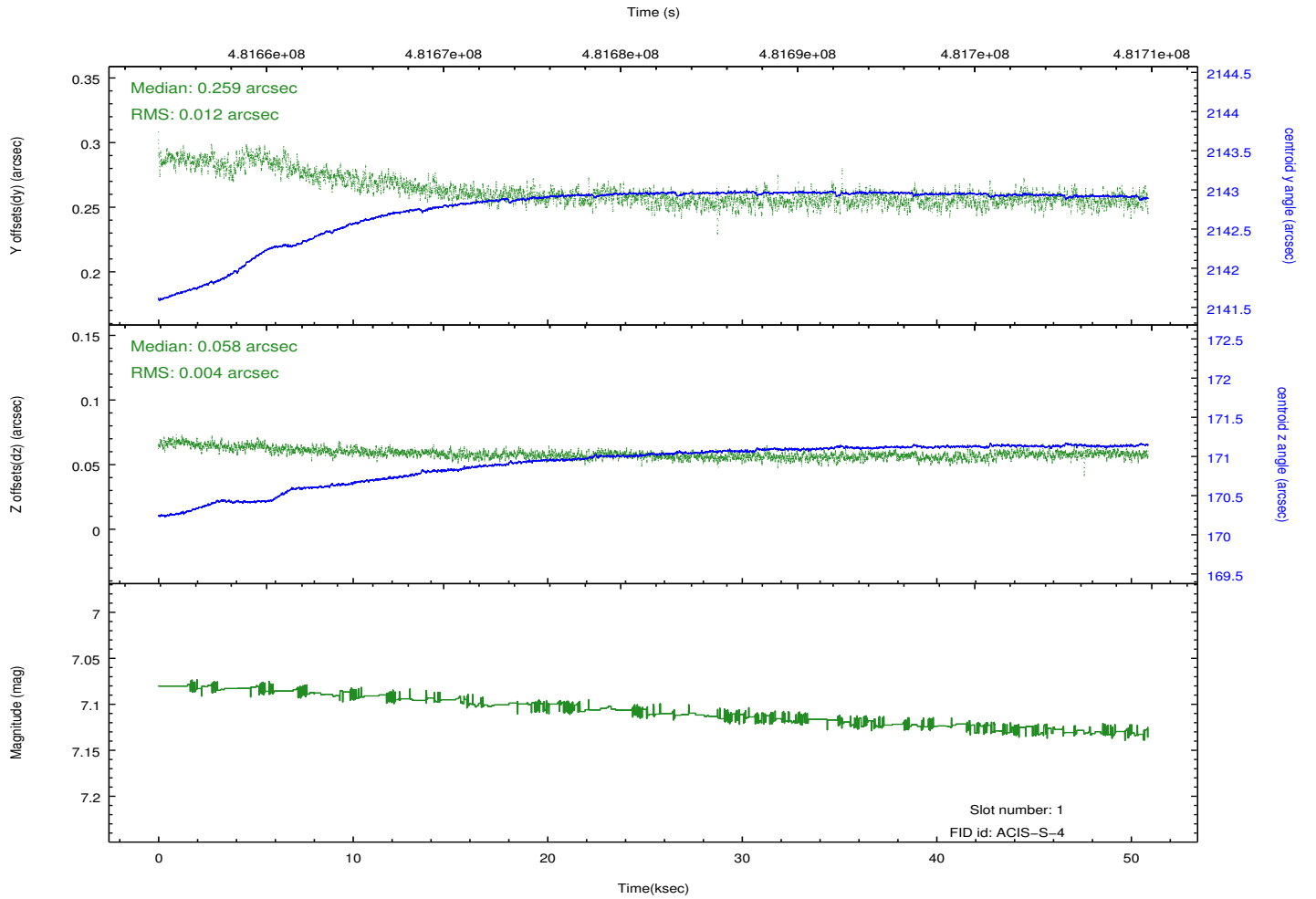
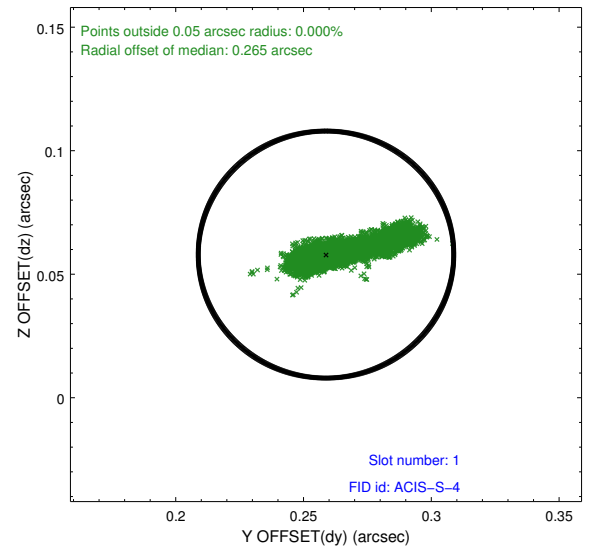
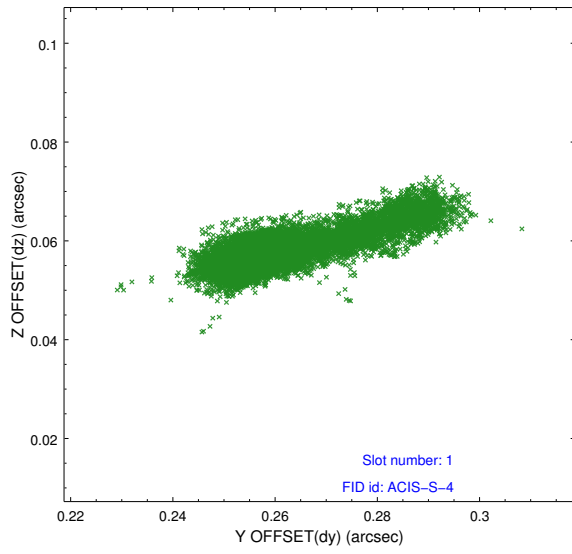


2.5 FID Slots

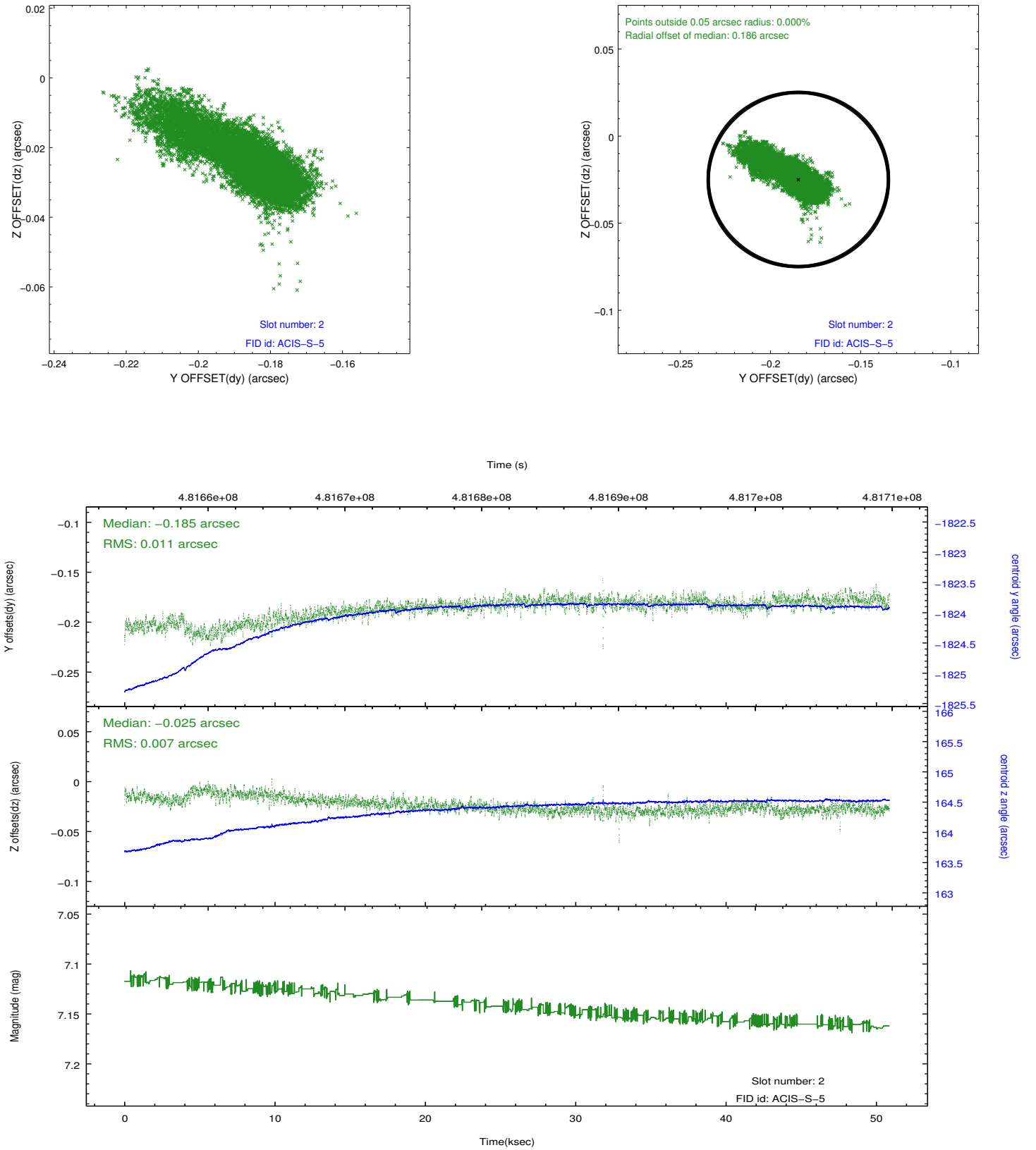
2.5.1 Slot 0



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	50.061900385022

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.