

V&V Reference Report

L2 ASCDS Version : 10

Observation 15668 - L2 Version 2
Chandra X-Ray Center

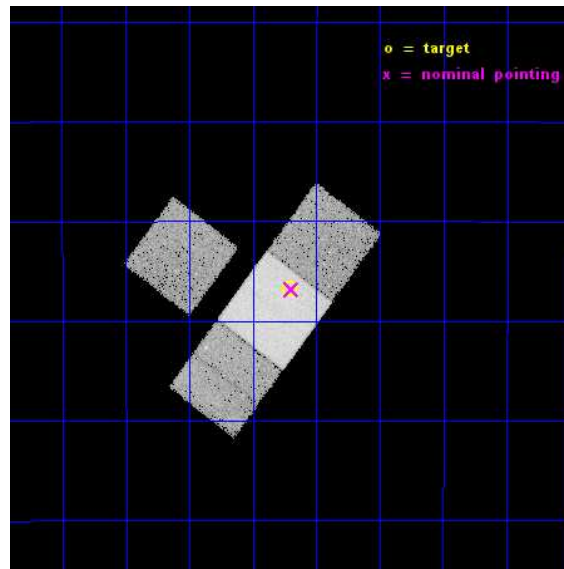
L2 Processing Date : Dec 6 2014

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1 Front

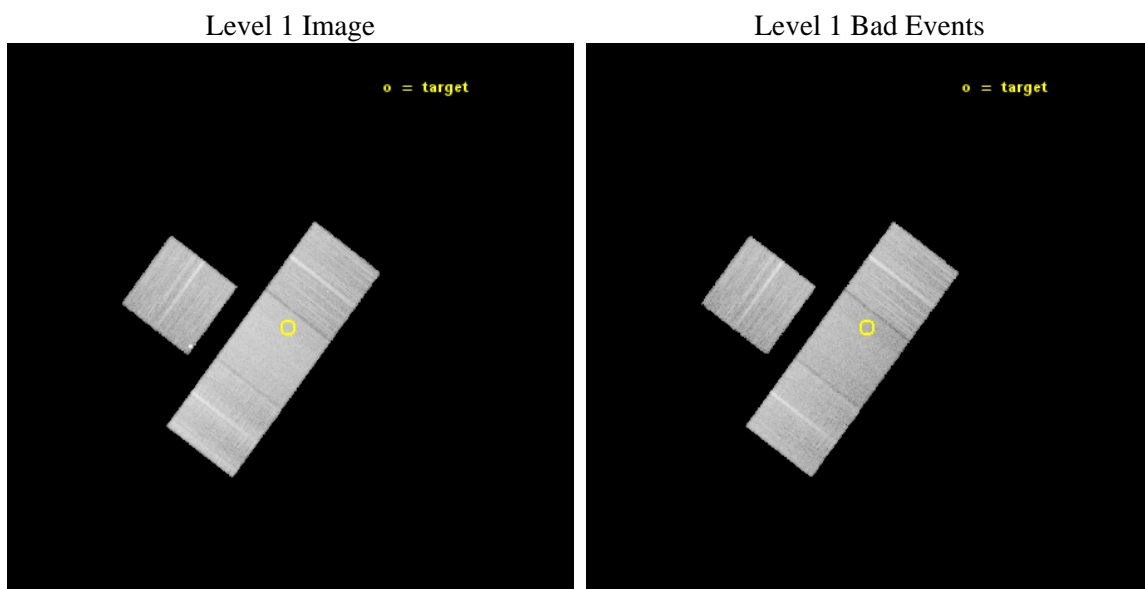
seq_num	502038	Sequence number
obs_id	15668	Observation id
title	SN 2012hn: a tidal detonation event?	Proposal title
observer	Prof. Thomas Maccarone	Principal investigator
object	SN 2012hn	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.6775	Observer's specified target RA [deg]
dec_targ	-27.447167	Observer's specified target Dec [deg]
ra_nom	100.67410322784	Nominal RA [deg]
dec_nom	-27.447413244884	Nominal Dec [deg]
roll_nom	126.89817967788	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30075.211807013	Sum of GTIs [s]
livetime	29682.257023705	Livetime [s]
ontime3	30075.129727006	Sum of GTIs [s]
ontime6	30075.170767009	Sum of GTIs [s]
ontime7	30075.211807013	Sum of GTIs [s]
ontime8	30075.088687003	Sum of GTIs [s]
l2events	135348	Number of level 2 events



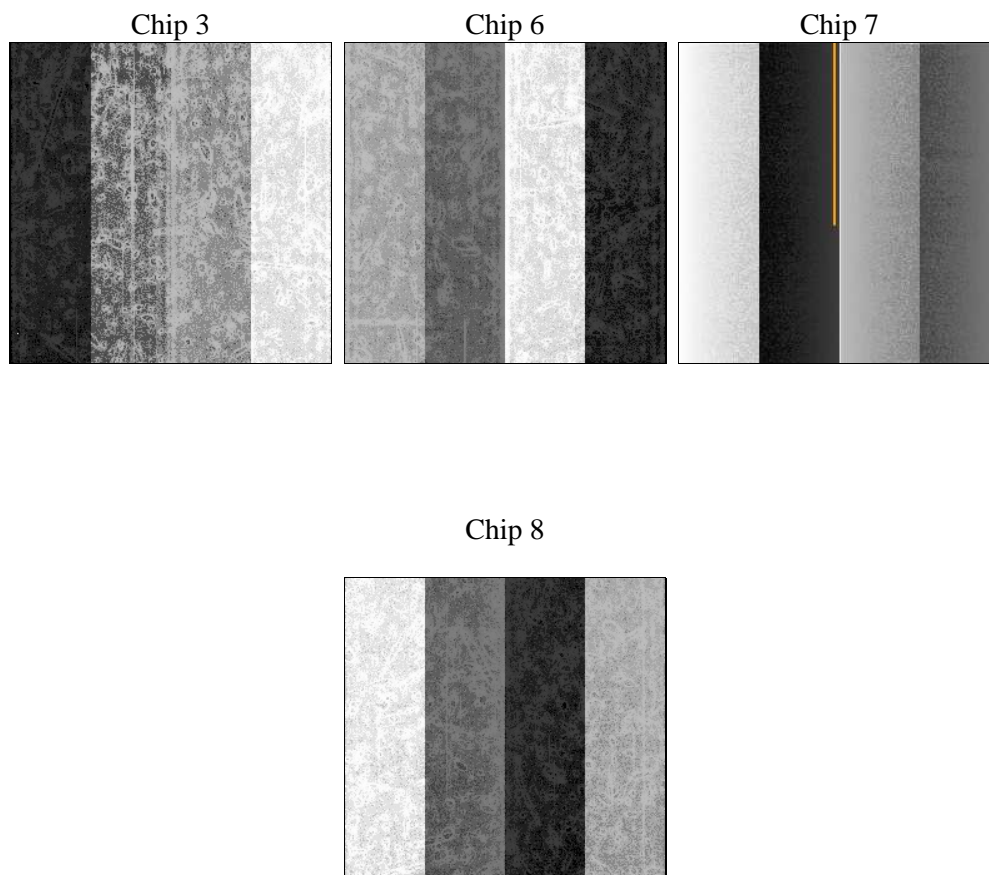
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30075.211807013	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	30075.129727006	Sum of GTIs [s]
date	2014-12-06T05:20:22	Date and time of file creation	ontime6	30075.170767009	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	30075.211807013	Sum of GTIs [s]
			ontime8	30075.088687003	Sum of GTIs [s]
			l1events	687539	Number of level 1 events

2.1.4 Events

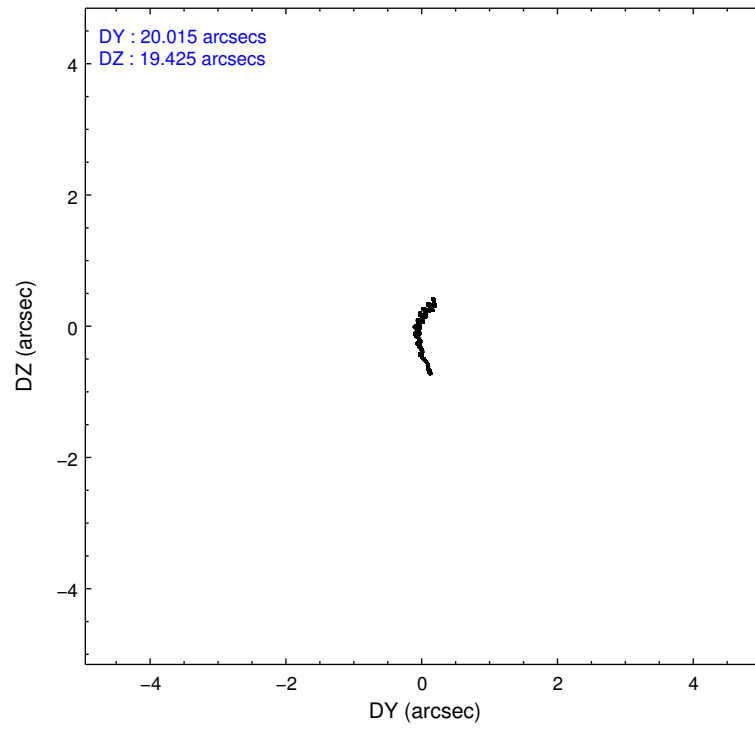
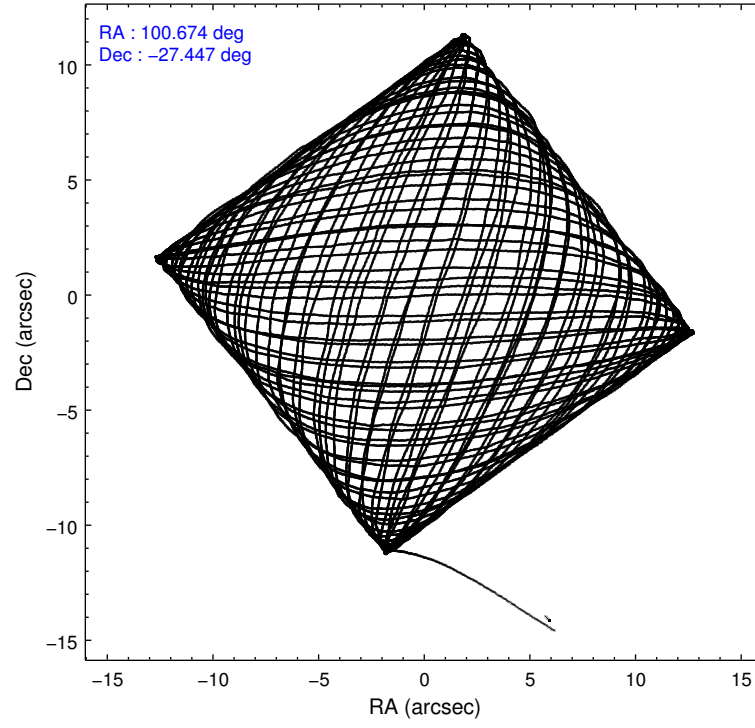
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	140936	151256	199990	195357
rejected events	122834	133400	112278	141582
rejected %	87%	88%	56%	72%

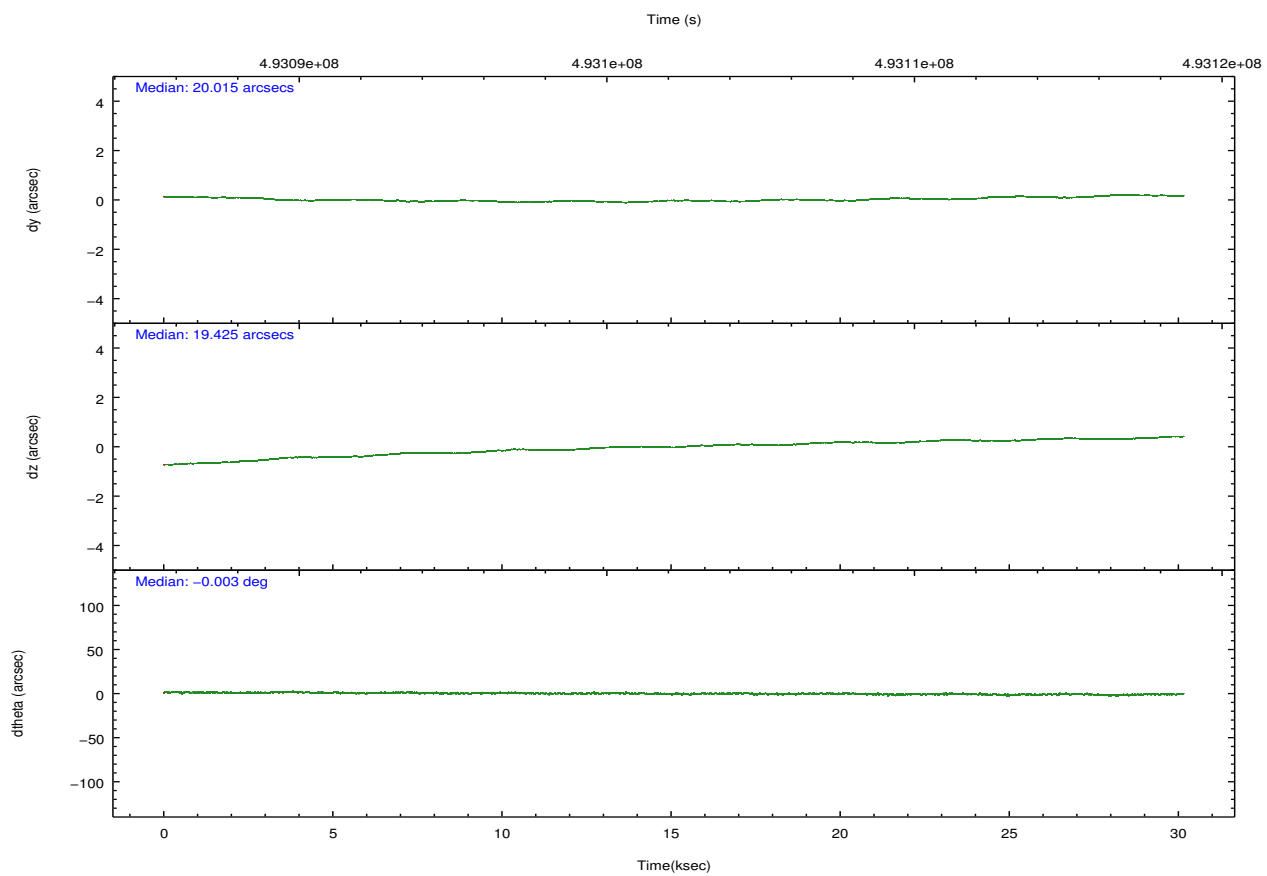
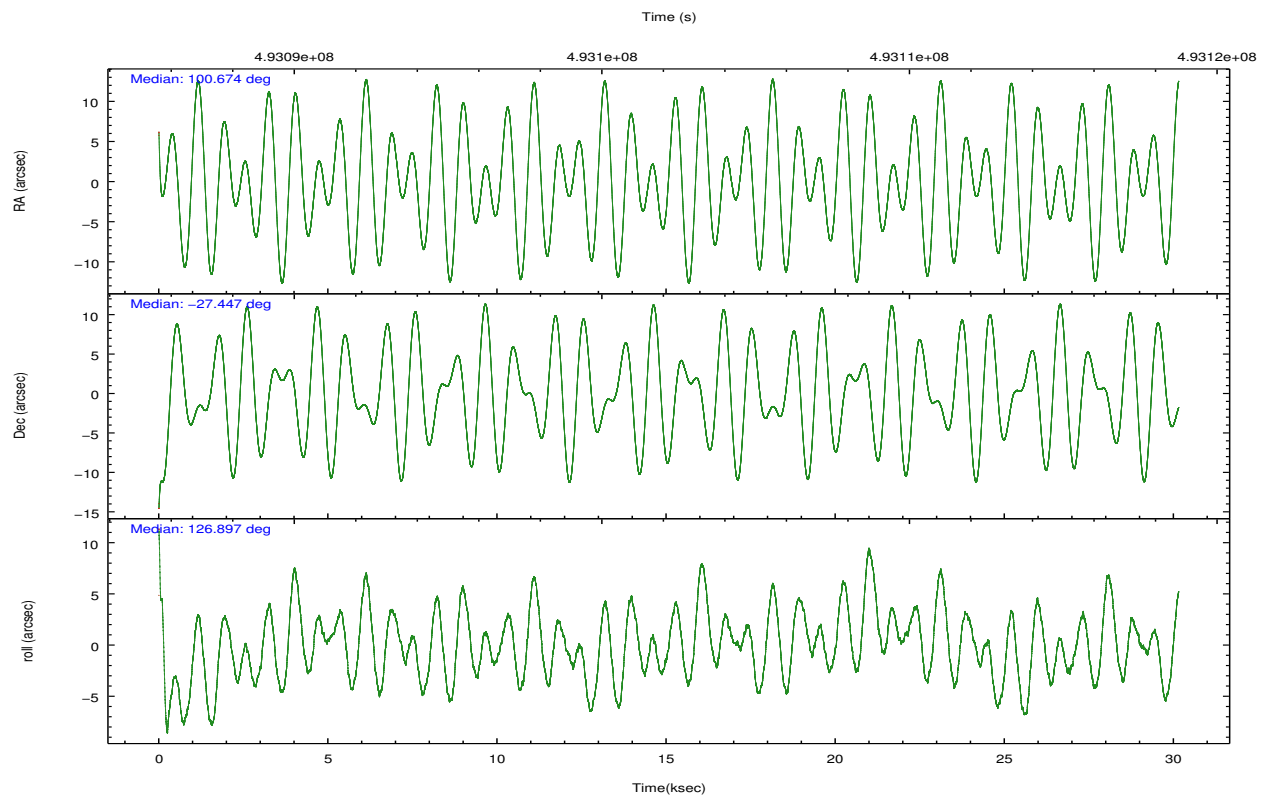
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7536	6031	7903	15661
	5%	3%	3%	8%
grade 1 events	106	64	235	152
	0%	0%	0%	0%
grade 2 events	3586	4032	17937	12521
	2%	2%	8%	6%
grade 3 events	1745	1818	7578	5462
	1%	1%	3%	2%
grade 4 events	1769	1812	7510	5432
	1%	1%	3%	2%
grade 5 events	7908	7872	20850	11242
	5%	5%	10%	5%
grade 6 events	3470	4165	46804	14703
	2%	2%	23%	7%
grade 7 events	114816	125462	91173	130184
	81%	82%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	100.702599	100.6741032278357	CCD I2 on	N	N
[deg] Pointing Dec	-27.457780	-27.44741324488353	CCD I3 on	O3	Y
[deg] Pointing Roll	126.754685	126.898179677881	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	O1	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	O2	Y
[s] Observation start time (MET)	493087261.184000	493086269.65878	CCD S5 on	N	N
Observation start date	2013-08-17T00:39:54	2013-08-17T00:24:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	493117261.184000	493118185.08552	On-chip summing requested	N	N
Observation end date	2013-08-17T08:59:54	2013-08-17T09:16:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



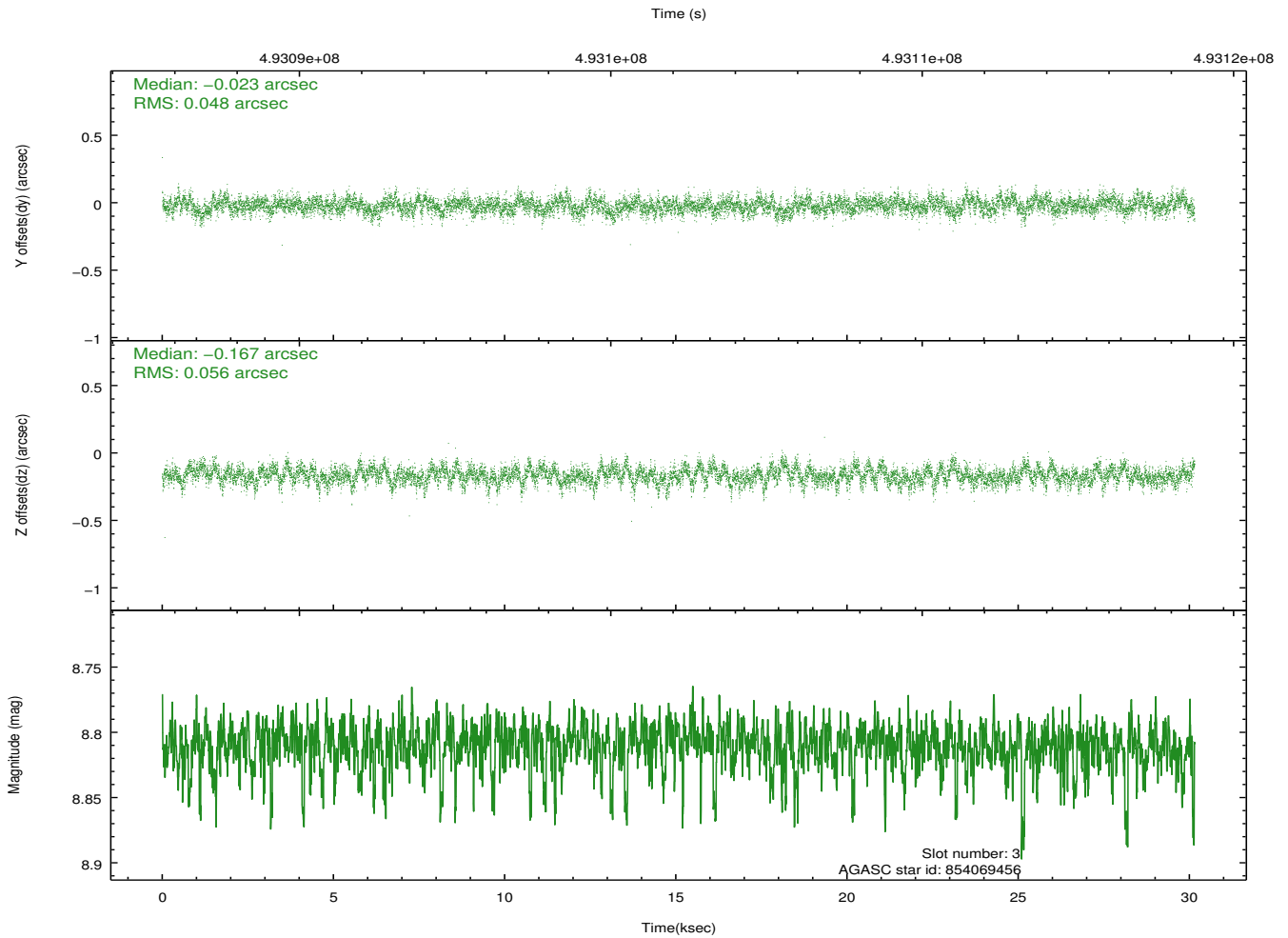
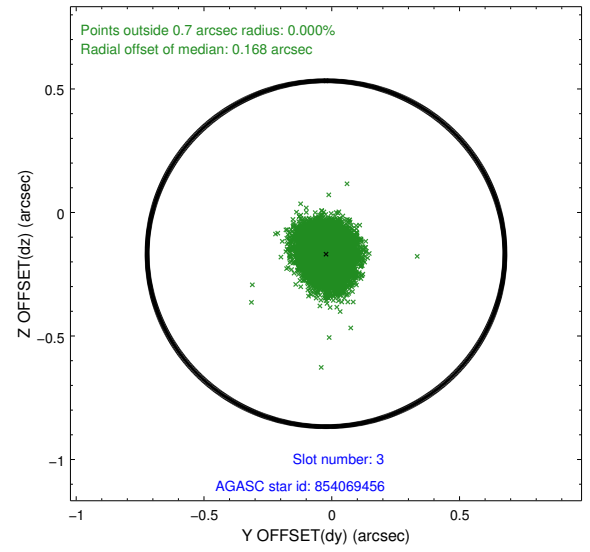
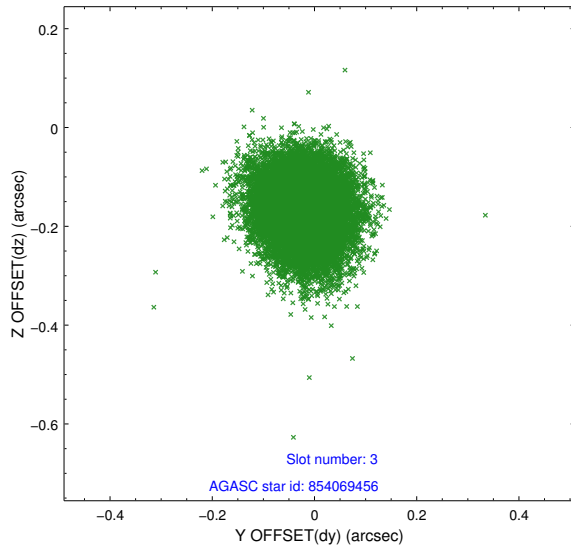


Slot Statistics

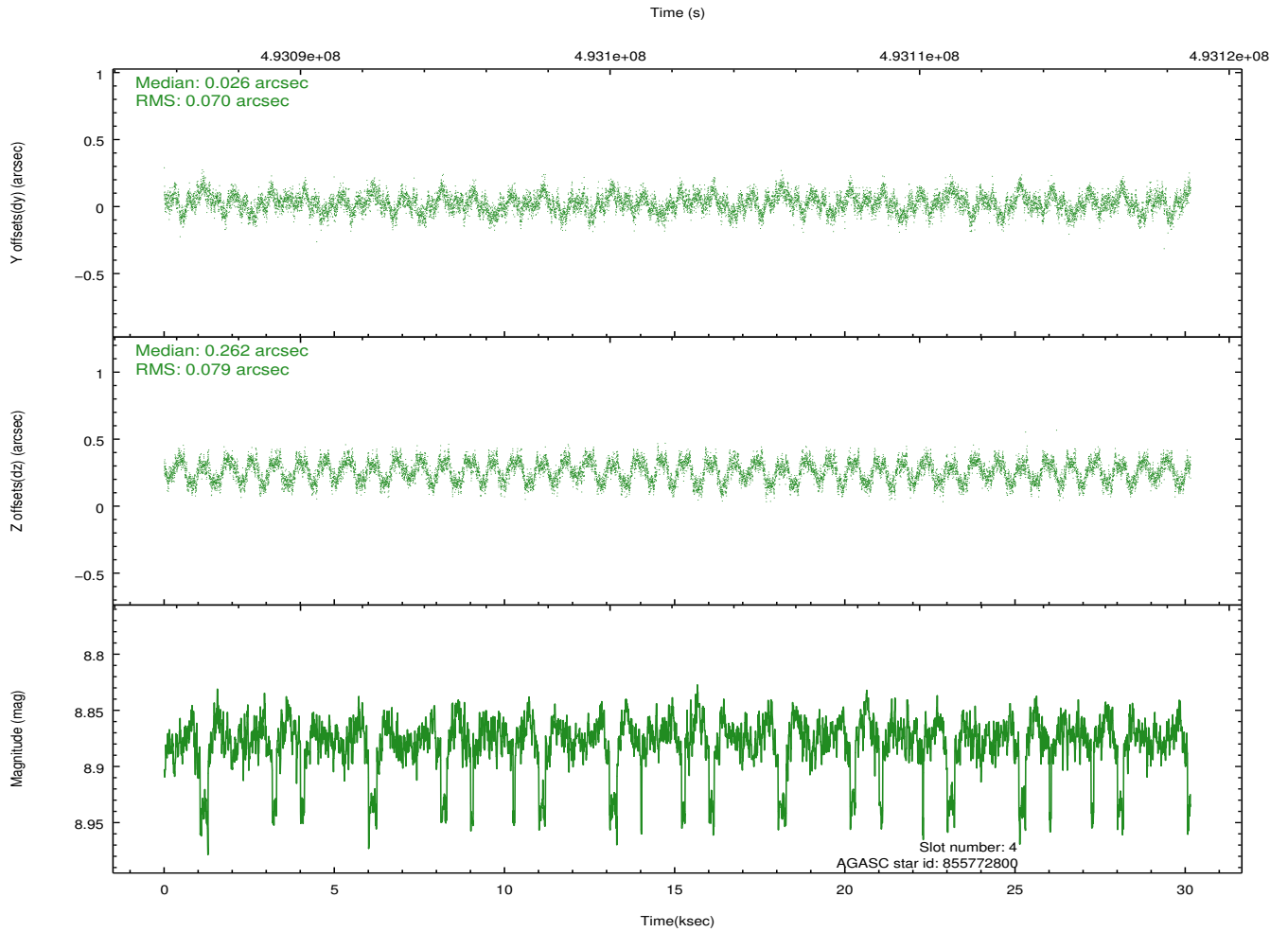
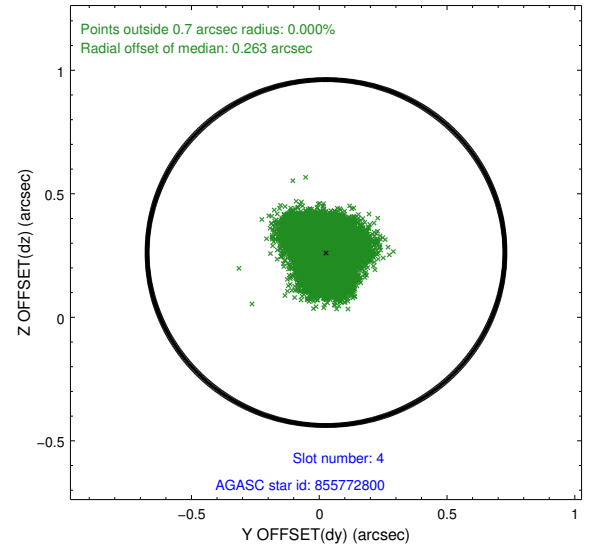
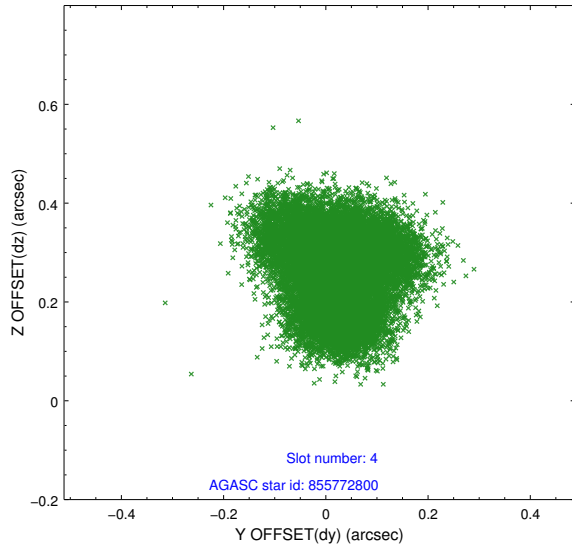
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	7355	-0.038	-0.020	0.011	0.019	0.000000	0.000000	-773.22	-1740.88
1	FID		ACIS-S-5	7.03	7354	-0.090	-0.042	0.012	0.023	0.000000	0.000000	-1826.38	161.03
2	FID		ACIS-S-6	7.13	7354	0.101	0.068	0.010	0.018	0.000000	0.000000	388.51	805.07
3	GUIDE	used	854069456	8.81	14703	-0.023	-0.167	0.077	0.127	100.085220	-27.281151	1687.60	1205.02
4	GUIDE	used	855772800	8.88	14684	0.026	0.262	0.115	0.169	100.486416	-26.860522	2137.90	-729.59
5	GUIDE	used	856297744	8.94	14705	0.186	0.044	0.092	0.145	100.751150	-28.189833	-2203.21	1453.64
6	GUIDE	used	854066784	9.21	14628	-0.034	-0.015	0.107	0.164	100.122834	-27.366140	1369.90	1290.43
7	GUIDE	used	854074024	9.05	14695	-0.156	-0.114	0.107	0.174	100.156402	-27.358914	1327.10	1188.56

2.4 Star Slots

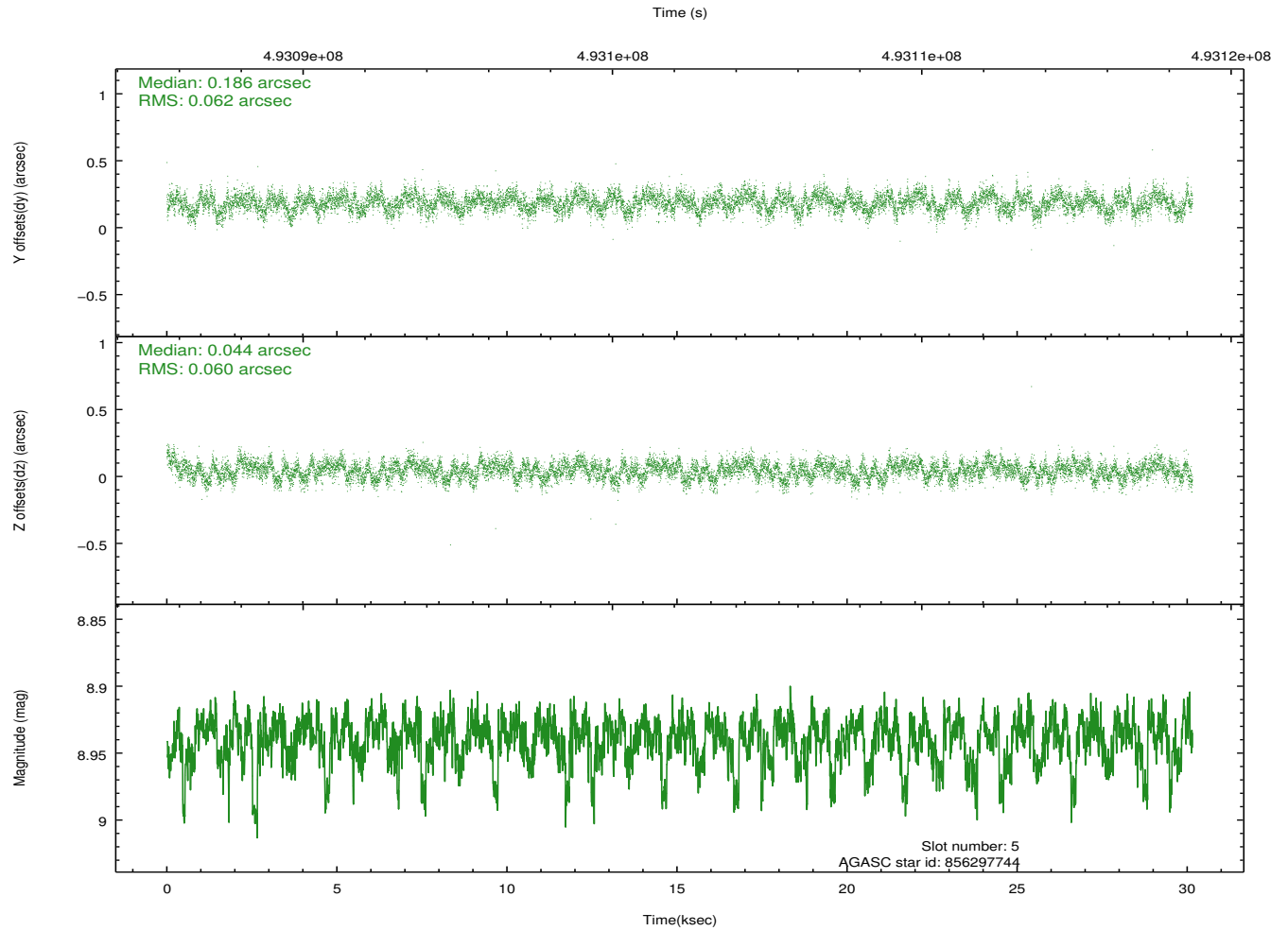
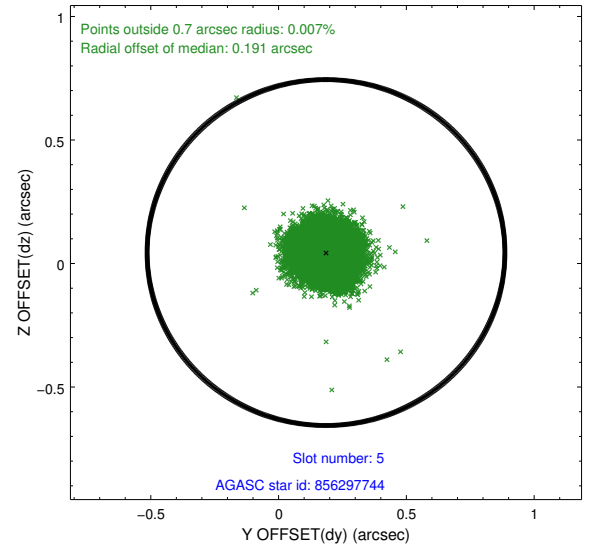
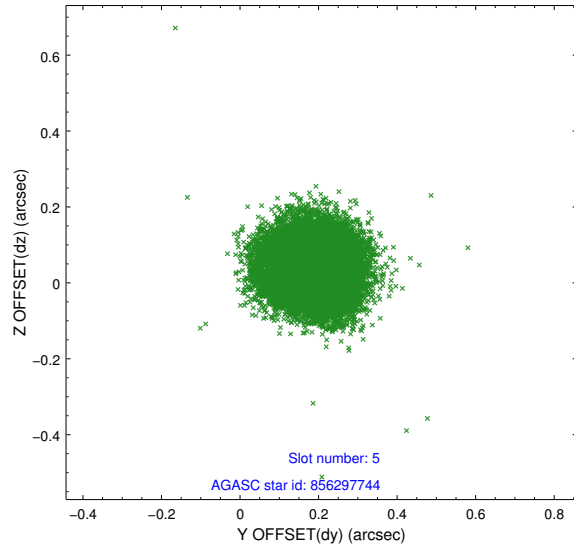
2.4.1 Slot 3



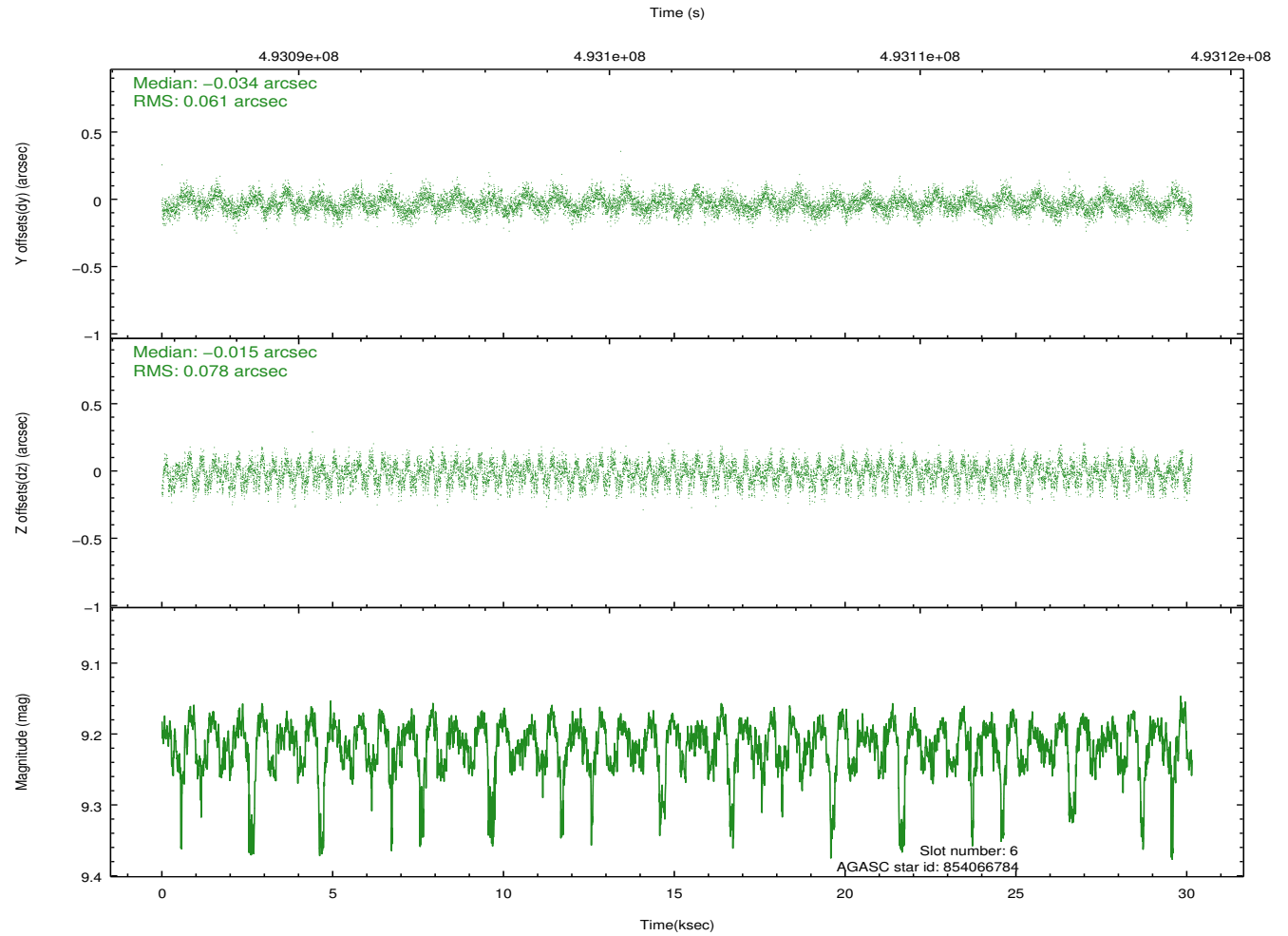
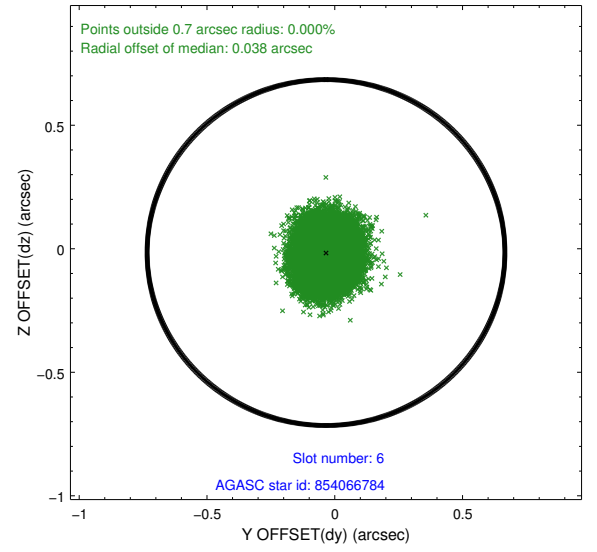
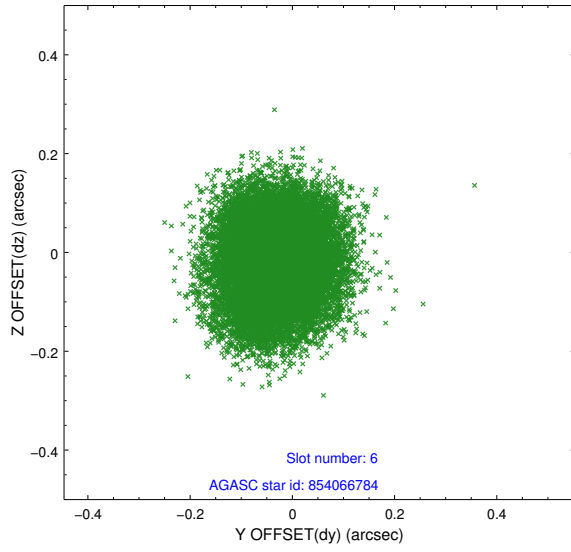
2.4.2 Slot 4



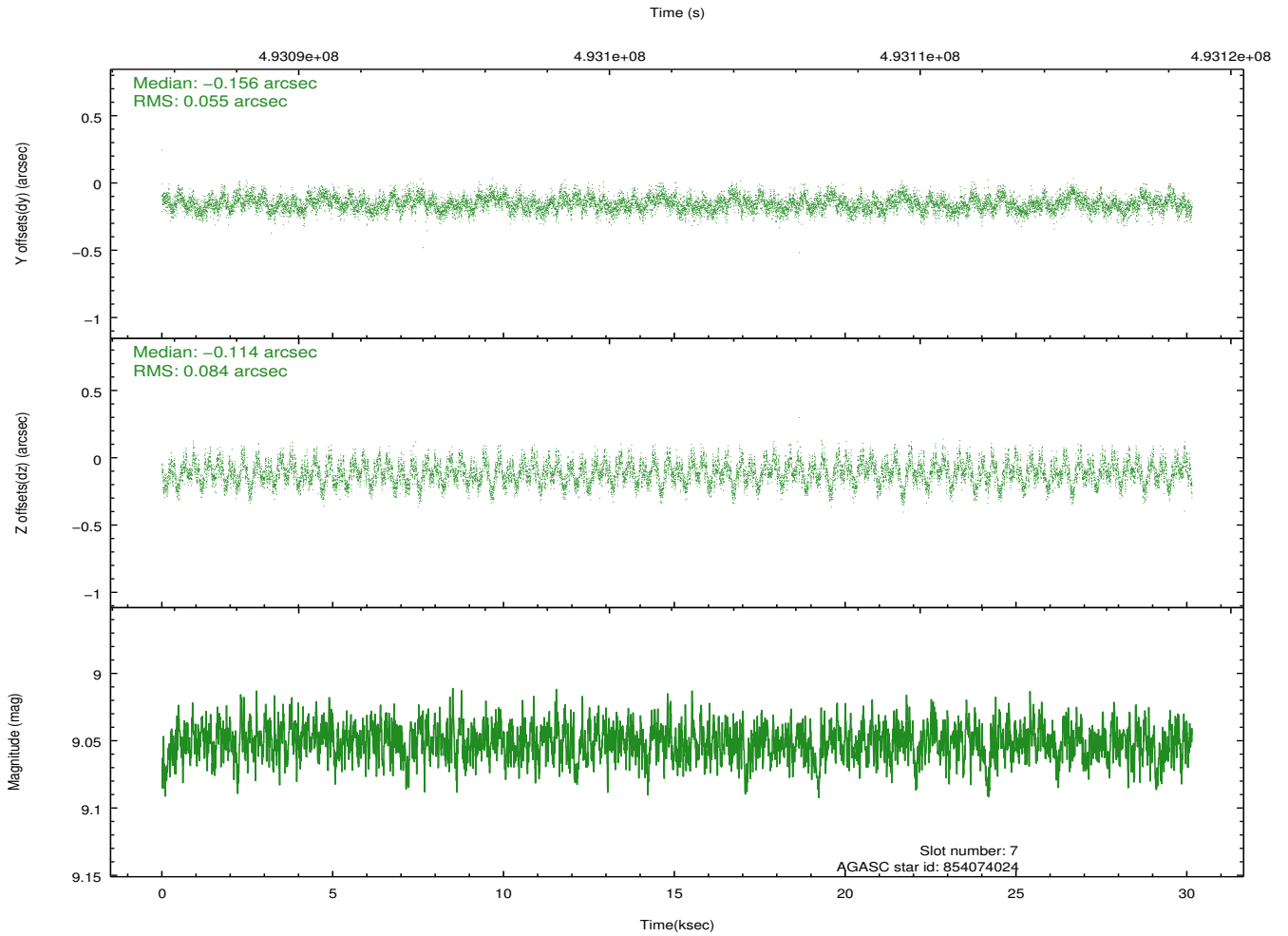
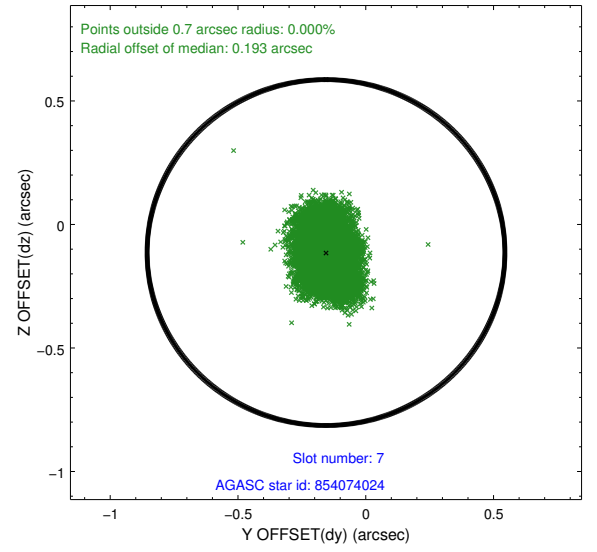
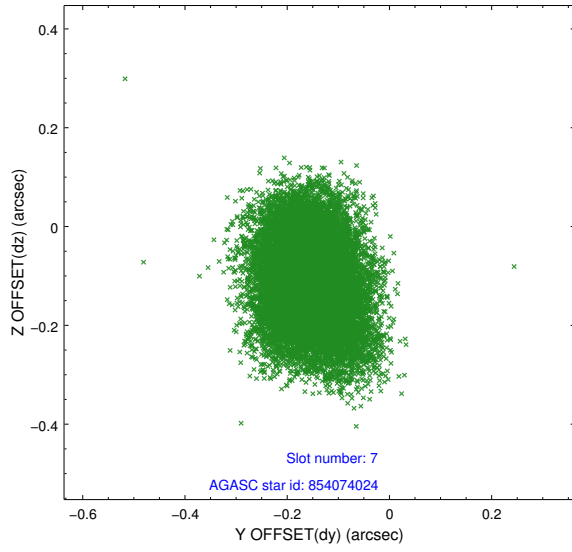
2.4.3 Slot 5



2.4.4 Slot 6

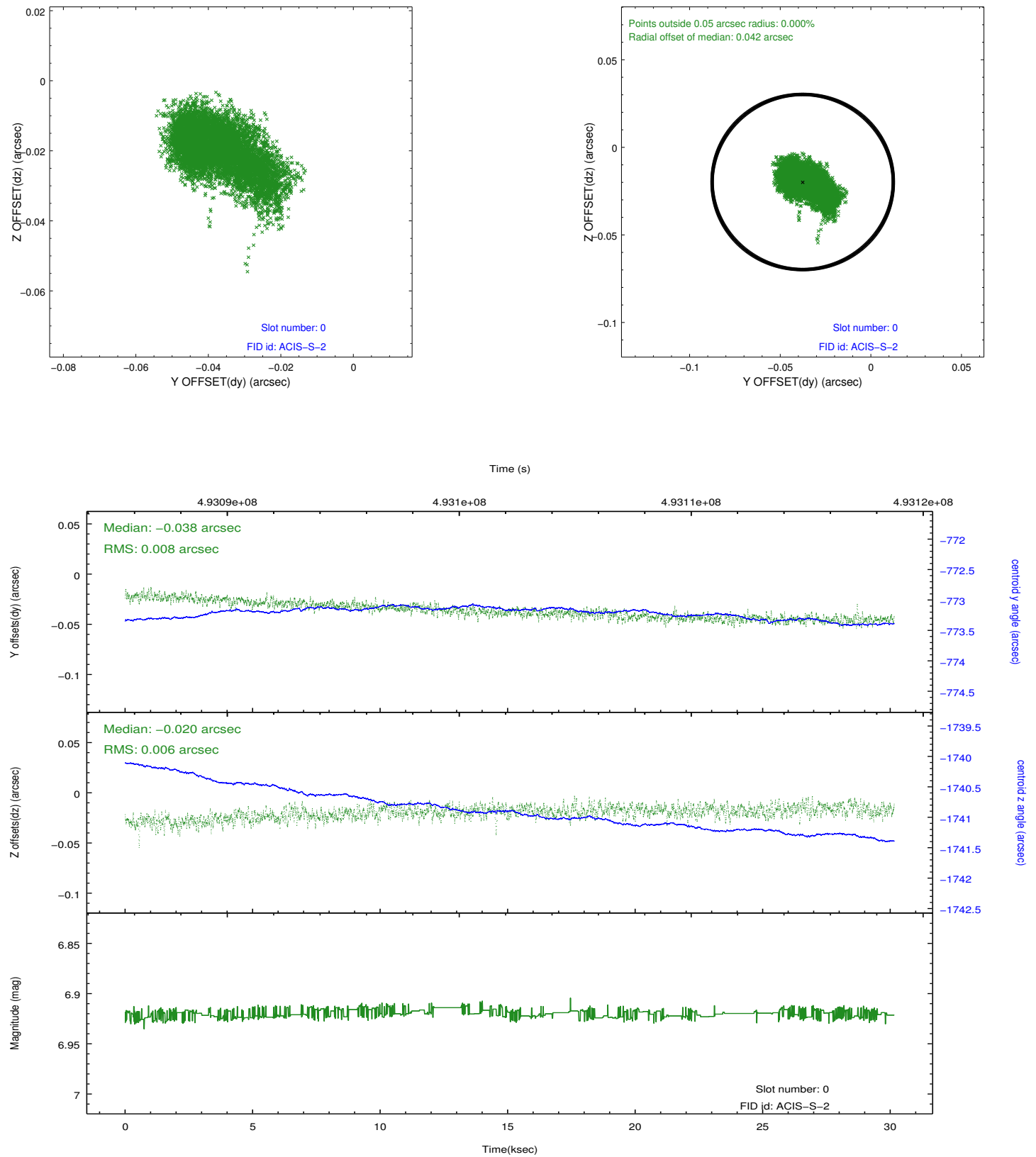


2.4.5 Slot 7

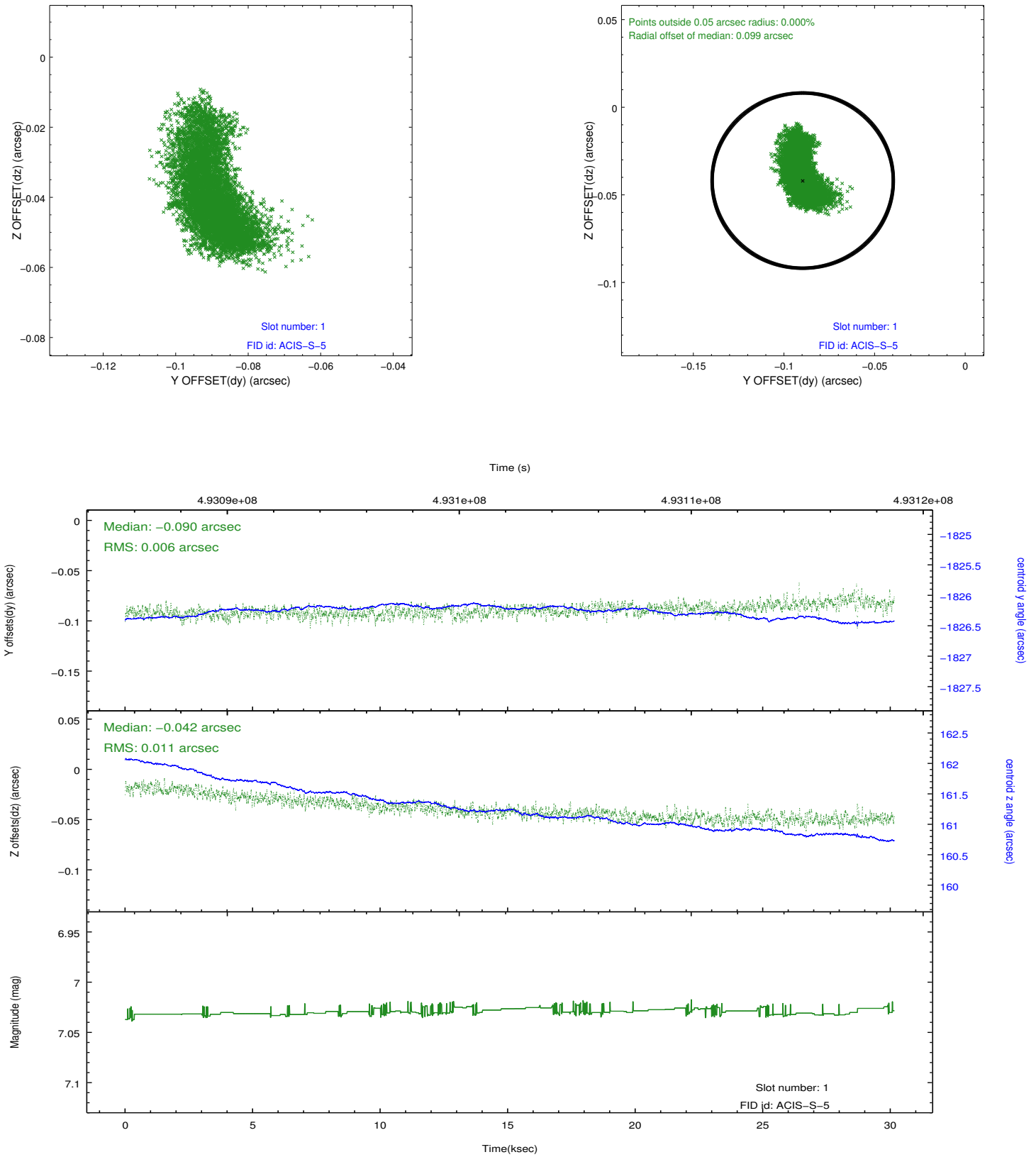


2.5 FID Slots

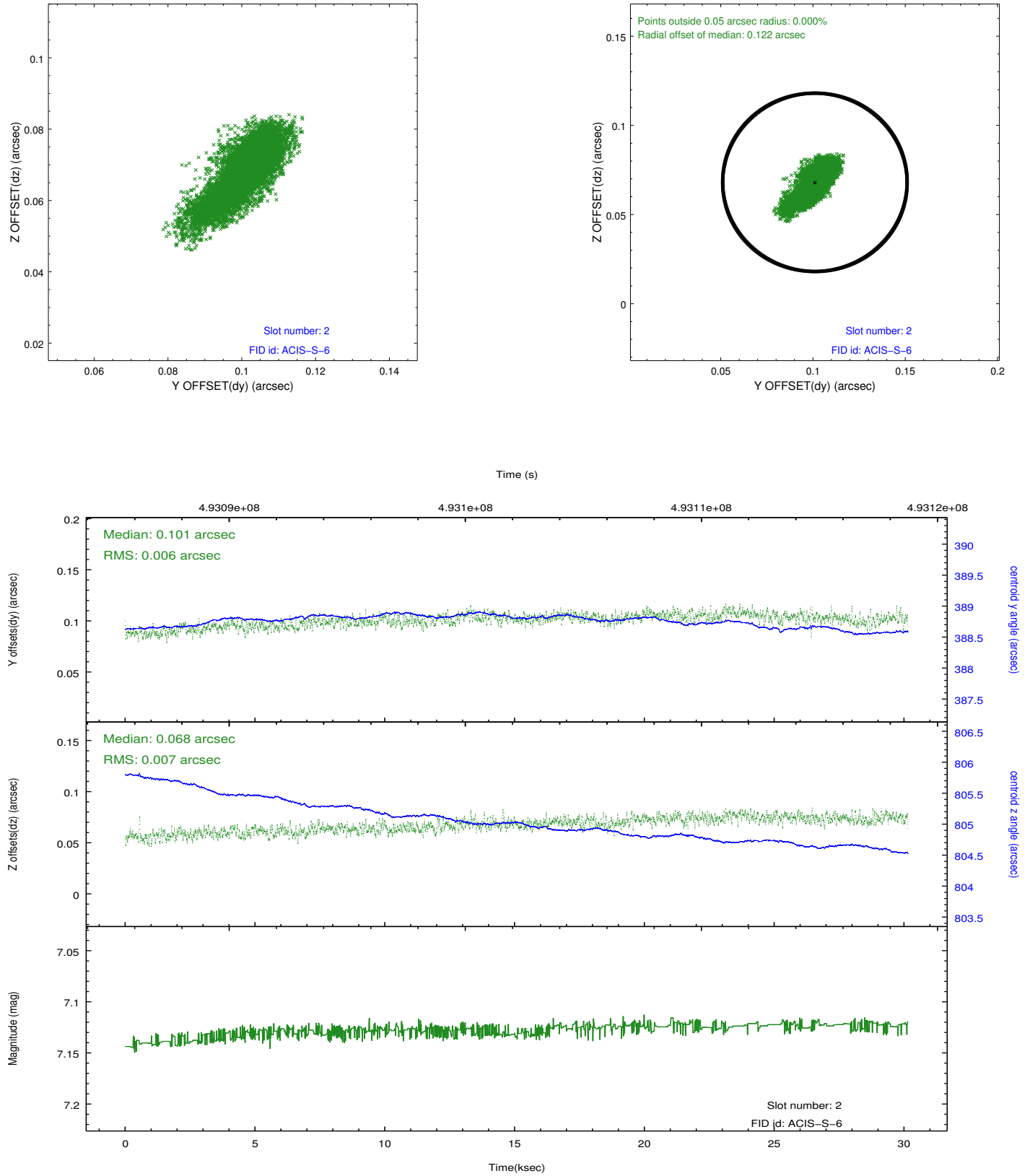
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.075211807013

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.